OWNER'S MANUAL

Color Television
27MS343S

MAGNAVOX
S M A R T .   V E R Y   S M A R T .

STOP!

NEED HELP? CALL US!
MAGNAVOX REPRESENTATIVES ARE READY TO HELP YOU WITH ANY QUESTIONS ABOUT YOUR NEW PRODUCT. WE CAN GUIDE YOU THROUGH CONNECTIONS, FIRST-TIME SETUP, AND ANY OF THE FEATURES. WE WANT YOU TO START ENJOYING YOUR NEW PRODUCT RIGHT AWAY.

CALL US BEFORE YOU CONSIDER RETURNING THE PRODUCT.
1-800-705-2000

OR VISIT US ON THE WEB AT WWW.MAGNAVOX.COM

IMPORTANT!
RETURN YOUR WARRANTY REGISTRATION CARD WITHIN 10 DAYS.
SEE WHY INSIDE.

IB8408E004

Return your Warranty Registration card today to ensure you receive all the benefits you're entitled to.

Once your MAGNAVOX purchase is registered, you're eligible to receive all the privileges of owning a MAGNAVOX product. So complete and return the Warranty Registration Card enclosed with your purchase at once. And take advantage of these important benefits.

Warranty Verification

Registering your product within 10 days confirms your right to maximum protection under the terms and conditions of your MAGNAVOX warranty.

Owner Confirmation

Your completed Warranty Registration Card serves as verification of ownership in the event of product theft or loss.

Model Registration

Returning your Warranty Registration Card right away guarantees you'll receive all the information and special offers which you qualify for as the owner of your model.

Congratulations on your purchase, and welcome to the "family!"

REGISTRATION NEEDED WITHIN 10 DAYS
MAGNAVOX MAGNAVOX
Hurry!

Dear MAGNAVOX product owner:
Thank you for your confidence in MAGNAVOX. You've selected one of the best-built, best-backed products available today. We'll do everything in our power to keep you happy with your purchase for many years to come.
As a member of the MAGNAVOX "family," you're entitled to protection by one of the most comprehensive warranties and outstanding service networks in the industry.
What's more, your purchase guarantees you'll receive all the information and special offers for which you qualify, plus easy access to accessories from our convenient home shopping network. Most importantly, you can count on our uncompromising commitment to your total satisfaction.
All of this is our way of saying welcome-and thanks for investing in a MAGNAVOX product.

P.S. **Remember, to get the most from your MAGNAVOX product, you must return your Warranty Registration Card within 10 days. So please mail it to us right now!**

Know these
safetysymbols

⚡ CAUTION ⚠
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

⚡ This "bolt of lightning" indicates uninsulated material within your unit may cause an electrical shock. For the safety of everyone in your household, please do not remove product covering.

⚠ The "exclamation point" calls attention to features for which you should read the enclosed literature closely to prevent operating and maintenance problems.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

CAUTION: To prevent electric shock, match wide blade of plug to wide slot, fully insert.

ATTENTION: Pour éviter les choc électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

For Customer Use
Enter below the Serial No. which is located on the rear of the cabinet. Retain this information for future reference.
Model No._____
Serial No. _____

IMPORTANT SAFETY INSTRUCTIONS
Read before operating equipment

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any of the ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or third prong are provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as if the power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, or if the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. This product may contain lead and mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance (www.eiae.org).
16. **Damage Requiring Service** - The appliance should be serviced by qualified service personnel when:
    A. The power supply cord or the plug has been damaged;
    B. Objects have fallen or liquid has been spilled into the appliance;
    C. The appliance has been exposed to rain;
    D. The appliance does not appear to operate normally or exhibits a marked change in performance;
    E. The appliance has been dropped or the enclosure damaged.
17. **Tilt/Stability** - All televisions must comply with recommended international global safety standards for tilt and stability properties of its cabinet design.
    • Do not compromise these design standards by applying excessive pull force to the front, or top, of the cabinet, which could ultimately overturn the product.
    • Also, do not endanger yourself, or children, by placing electronic equipment/toys on the top of the cabinet. Such items could unsuspectingly fall from the top of the set and cause product damage and/or personal injury.
18. **Wall or Ceiling Mounting** - The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
19. **Power Lines** - An outdoor antenna should be located away from power lines.
20. **Outdoor Antenna Grounding** - If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges.
    Section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure below.
21. **Object and Liquid Entry** - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
22. **Battery usage CAUTION** - To prevent battery leakage that may result in bodily injury, property damage, or damage to the unit:
    • Install all batteries correctly, with + and - aligned as marked on the unit.
    • Do not mix batteries (old and new or carbon and alkaline, etc.).
    • Remove batteries when the unit is not used for a long time.

Note to the Cable TV system installer: This reminder is provided to call the Cable TV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

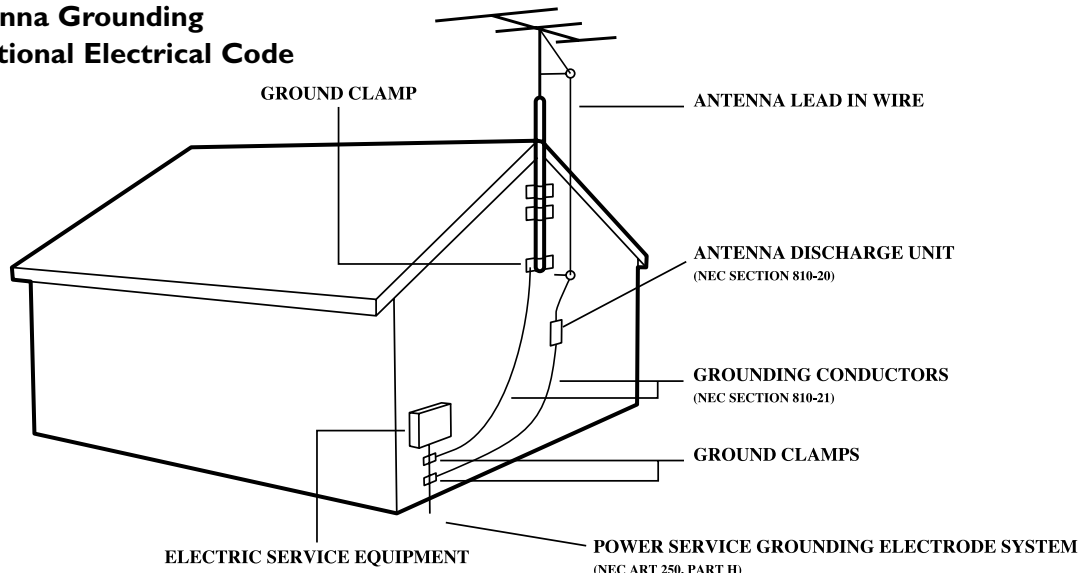## Example of Antenna Grounding as per NEC - National Electrical Code

GROUND CLAMP

ANTENNA LEAD IN WIRE

ANTENNA DISCHARGE UNIT
(NEC SECTION 810-20)

GROUNDING CONDUCTORS
(NEC SECTION 810-21)

GROUND CLAMPS

ELECTRIC SERVICE EQUIPMENT

POWER SERVICE GROUNDING ELECTRODE SYSTEM
(NEC ART 250, PART H)

Table of Contents

Here are a few of the special features of your new Color Television.

Parental Control: Allows you to block the viewing of certain TV channels if you do not want your children viewing inappropriate material.

Remote Control: Works your TV features.

Standard broadcast (VHF/UHF) or Cable TV channel capability

Stereo capability: Includes a built-in amplifier and twin-speaker system; allows reception of TV programs broadcast in stereo.

Closed Captioning: Allows you to read TV program dialog or voice conversations as on-screen text.

Automatic Channel Programming: Quick and easy selection of available stations.

Child Lock: Locks the buttons on the front of the TV so it cannot be operated accidentally by young children.

On-screen Menus: Helpful messages (in English or Spanish) for setting TV controls.

Off-Timer: Turns off the TV at a preset time.

On-Timer: Turns on the TV at a preset time to a designated TV channel or video source.

Sleep Timer: Turns off the TV within an amount of time you specify (10-120 minutes from the current time).

SmartPicture™: Lets you set the picture's color, tint, contrast, etc., for various types of programming. Settings include Sports, Movies, Weak Signal, and Personal, which sets the picture controls as you want.

SmartSound™: Lets you set the TV's sound settings for the current programming. Choices include Personal, Theatre, Music, or Voice.

The Cable TV signal into your home may be a single cable (75 ohm) or may include a Cable Box. In either case, the connection to the TV is easy.

If your Cable TV signal comes directly via a 75Ω coaxial cable, use the following steps.

1 **Connect the Cable TV signal to the 75 OHM ANTENNA INPUT jack on the rear of the TV.** Screw it down tight.

2 **Plug the TV's power cord into a power outlet and turn on the TV.** Set TV/CABLE to CABLE as detailed on page 11.
Refer to AUTO PROGRAM to set up your available TV channels. Details are on page 12.

If you have a Cable Box, use the following steps.

1 **Connect the Cable TV signal to the IN jack on the Cable Box.**

2 **Connect a separate coaxial cable to the OUT jack on the Cable Box and to the 75 OHM ANTENNA INPUT jack on the rear of the TV.**

3 **Plug the TV's power cord into a power outlet and turn on the TV.** Set TV/CABLE to CABLE as detailed on page 11.

4 **Set the TV to channel 3 or 4** (the same as the Channel 3/4 switch on your Cable Box if applicable). **Change channels at the Cable Box.**

Cable TV Company

75 OHM ANTENNA INPUT

Cable TV Company

75 OHM ANTENNA INPUT

Cable Box

IN   OUT
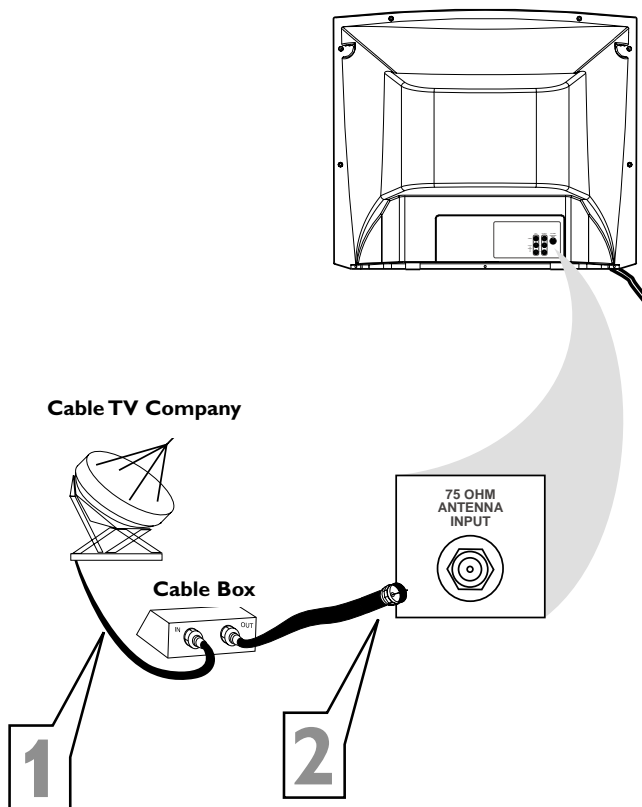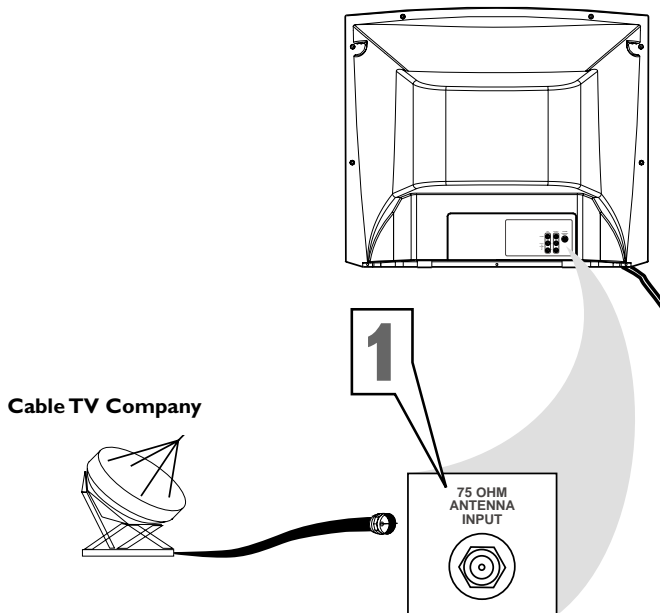
Helpful Hints

An RF coaxial cable (to connect the Cable Box to the TV) may be supplied by the Cable TV company. It is not supplied with the TV.

You can connect a Satellite Receiver the same way you would connect a Cable Box.

Your Cable Box may have separate Audio and Video Out jacks instead. If so, use audio and video cables to connect the AUDIO/VIDEO OUT jacks of the Cable Box to the AUDIO/VIDEO IN 2 jacks on the rear of the TV.
Press TV/AV/EXIT on the TV's remote control to set the TV to the VIDEO 2 channel. Change TV channels at the Cable Box.

A combination antenna receives normal broadcast channels (VHF 2-13 and UHF 14-69). Your connection is easy since you will connect the antenna to the 75 OHM ANTENNA INPUT jack on the rear of the TV.

1 **If your antenna has a round cable** (75 ohm) on the end, then you're ready to connect it to the TV. Go to step 2. **If your antenna has flat twin-lead wire** (300 ohm), you first need to attach the antenna wires to the screws on a 300 to 75 ohm adapter (not supplied with TV).

2 **Push the round end** of the adapter or antenna cable onto the 75 OHM ANTENNA INPUT jack on the rear of the TV. If the round end of the antenna cable is threaded, screw it down tight.

3 **Plug the TV's power cord into a power outlet and turn on the TV.** Set TV/CABLE to TV as detailed on page 11.
Refer to AUTO PROGRAM to set up your available TV channels. Details are on page 12.

75 OHM ANTENNA INPUT

OR
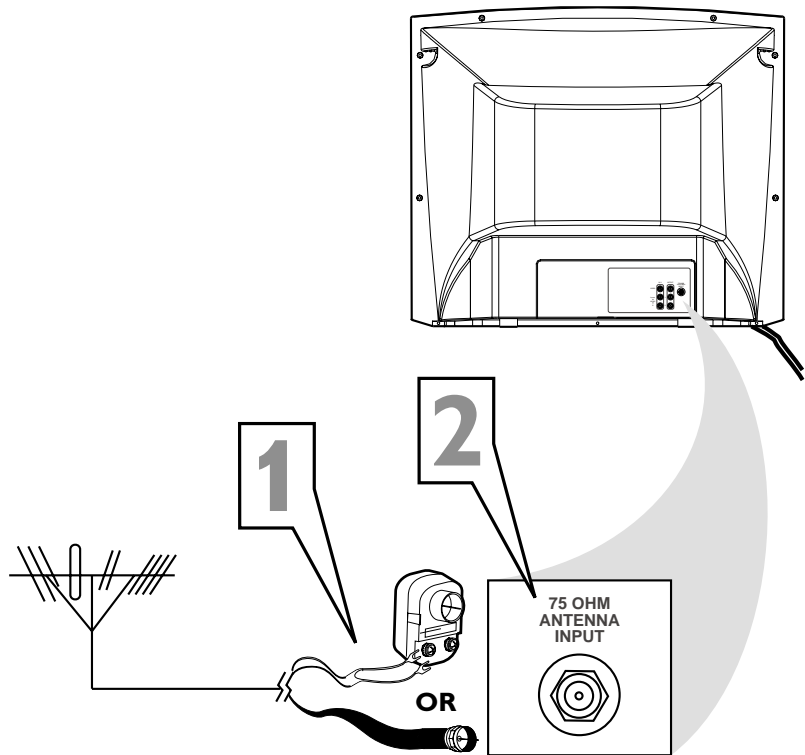
If you have separate UHF and VHF antennas, you need an optional combiner to connect the antennas to the TV.

UHF Antenna

UHF/VHF Combiner

VHF Antenna

Rear of TV

OR

75-300 Ω ADAPTER

75-300 Ohm Adapter

VHF Antenna
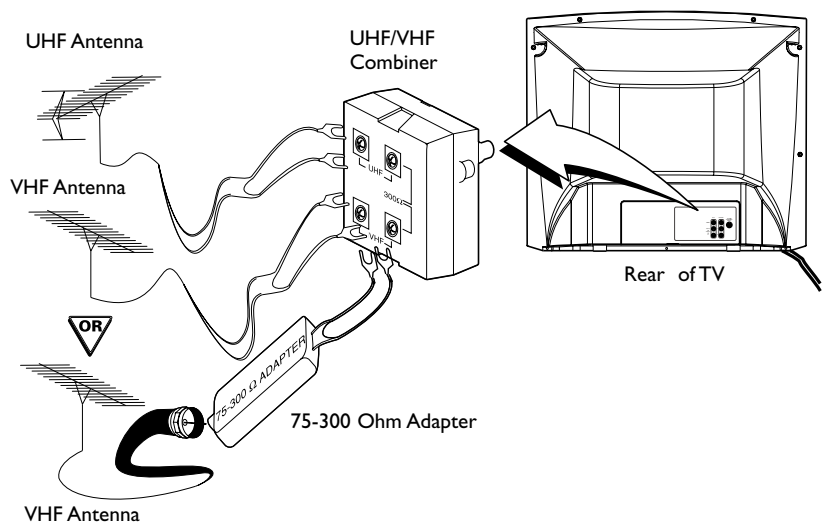
*T*he basic Antenna/Cable TV to Accessory
(VCR, DVD Player, etc.) to TV connection is
shown at right. For other hookups (such as
those with Cable Boxes), refer to the owner's
manual of the Cable Box or other Accessories.

1 **Connect a yellow video cable to the
VIDEO IN 2 jack on the rear of the
TV and to the VIDEO OUT jack on
your VCR** (or other accessory).

2 **Connect red and white audio cables
to the AUDIO IN 2 jacks** (left and
right) **on the rear of the TV and to
the AUDIO OUT jacks on the VCR**
(or other device). Match the cable colors
to the jack colors.

3 **Turn on the TV and the VCR.**

4 **Press the TV/AV/EXIT button on
the TV's remote control until
VIDEO 2 appears** in the upper right
corner of the TV screen. When you play
material on the VCR, DVD Player, etc.
that is connected to the AUDIO and
VIDEO IN 2 jacks on the rear of the TV,
it will appear on the TV on the VIDEO 2
channel.
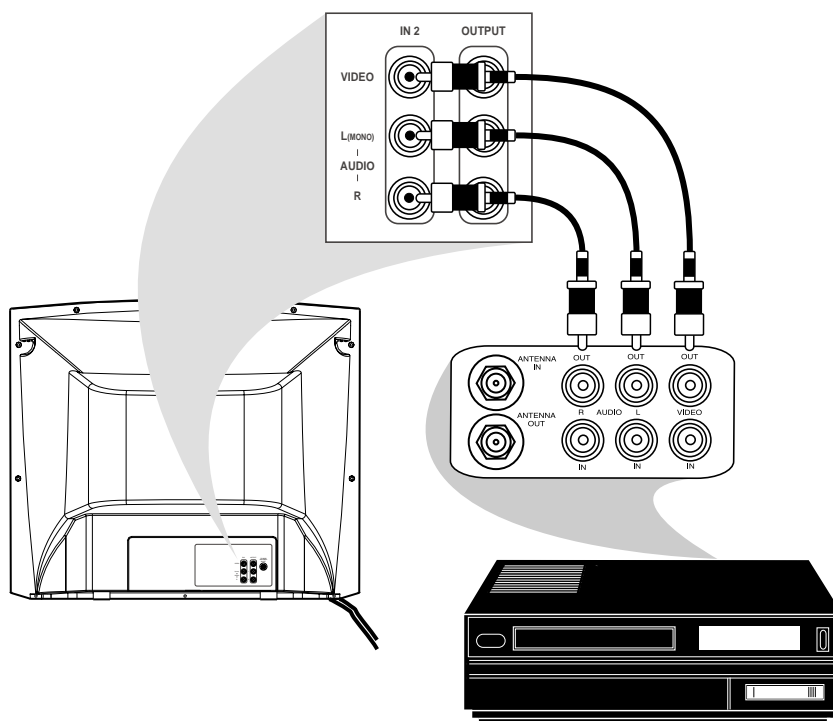
Helpful Hints

Audio and video cables are
not supplied with the TV.
Audio cables are usually
marked with red and white.
Video cables (CVBS) are
usually marked with yellow.

You can connect the anten-
na or Cable TV signal to
either the ANTENNA IN
jack on your VCR or to the
75 OHM ANTENNA
INPUT jack on the TV. If you
connect it to the VCR,
choose TV channels at the
VCR. Connect it to the VCR
if you want to record TV
programming through the
VCR.

Your VCR may not have
Audio and Video Out jacks,
but only an RF or ANTEN-
NA OUT jack. Use an RF
coaxial cable to connect the
VCR's ANTENNA OUT
jack to the TV's 75 OHM
ANTENNA INPUT jack.

*There are more AUDIO and VIDEO IN jacks at the lower-right corner of the
rear of the TV. These are the AUDIO and VIDEO IN 1 jacks. Use these if you
have more equipment to connect to the TV. To view material playing on
equipment connected to these jacks, select the VIDEO 1 channel at the TV.
(Press TV/AV/EXIT so VIDEO 1 appears in the top right corner of the TV
screen.)*

*There is also an S-VIDEO IN jack in this area. Use S-Video connections
instead if your DVD Player, Camcorder, etc., has an S-Video Out jack. S-Video
provides a clearer picture than the standard CVBS video (the yellow jack).
Choose the VIDEO 1 channel to view material playing on equipment connect-
ed to the S-VIDEO IN jack.*

*Use either the S-VIDEO IN 1 jack or the VIDEO IN 1 jack. You cannot use
both at the same time for the same piece of equipment. Doing so would
interfere with the picture display.*
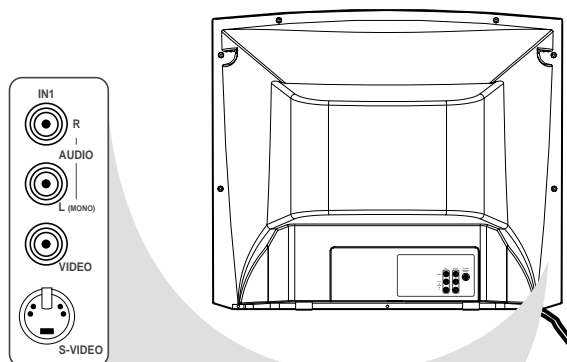
Basic TV and Remote Control Operations

Television

1 **Press POWER** to turn on the TV.

2 **Press VOL. ▲** to increase the sound level. Press **VOL. ▼** to lower the sound level.

3 **Press CH. ▲ or CH. ▼** to select TV channels.

4 **Press MENU** to see the TV's on-screen menu. In the menu, use **VOL. ▲/▼** and **CH. ▲/▼** to make adjustments or selections.
You can press MENU on either the remote control or the front of the TV to access or remove the menu.

Remote Sensor

TV/AV MENU ▼ VOL. ▲ ▼ CH. ▲ SENSOR STANDBY POWER

1 **4** **2** **3** **5**
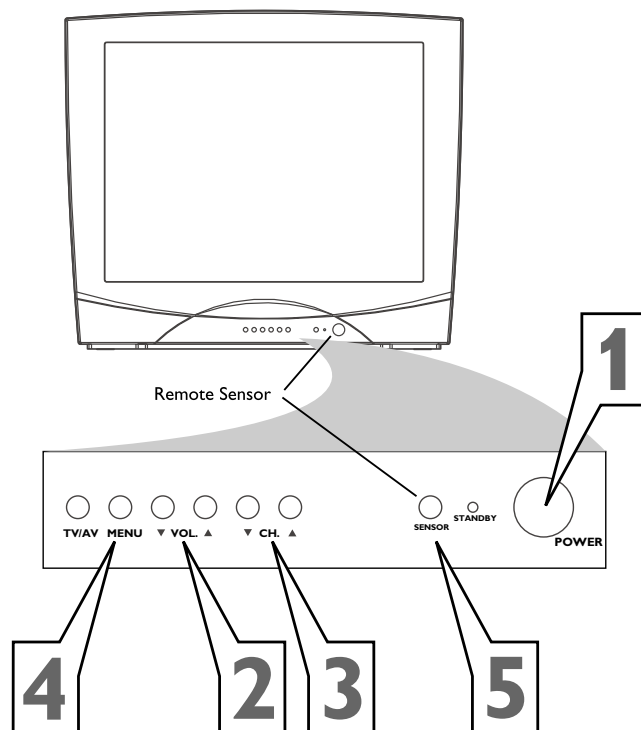
Remote Control

5 Point the remote control toward the remote sensor on the front of the TV when operating the TV with the remote.

Battery Installation

*T*o load batteries into the remote control:

1. Remove the battery compartment lid on the rear of the remote. Press in the tab, then lift off the lid.

2. Place two AAA batteries in the remote. Be sure the (+) and (-) ends of the batteries line up correctly (as marked inside the remote).

3. Reattach the battery compartment lid.

Battery Installation
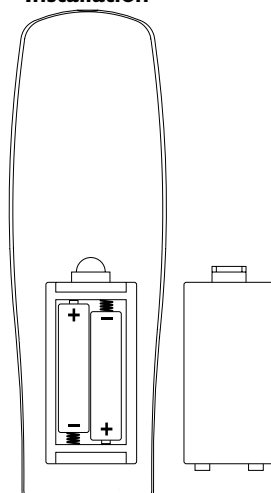
Helpful Hints

The channel number will appear briefly when you change channels. Or, press DISPLAY on the remote to see the channel number.

Press TV/AV on the front of the TV to choose TV channels or VIDEO 1 or VIDEO 2.

STANDBY ⏻ Button
Press to turn the TV on or off (standby).
You also can turn on the TV by pressing
the CH (annel) ▲/▼ buttons on the
front of the TV.

SLEEP Button
Press to select a time period (10 min-
utes to 120 minutes in 10-minute incre-
ments) after which the TV will turn itself
off. Details are on page 21.

SMART PICTURE Button
Press to select one of the four picture
settings (MOVIES, SPORTS, WEAK
SIGNAL, or PERSONAL).
Details are on page 16.

SMART SOUND Button
Press to select one of the four sound
effect settings: THEATRE, PERSONAL,
VOICE, or MUSIC.
Details are on page 28.

MENU Button
Press to see the TV's on-screen menu.
Press to go to the previous menu or to
remove a menu from the screen.

VOL (volume) +/- Buttons
Press to adjust the TV sound level.

DISPLAY Button
Press to see the current channel number
on the TV screen. Press to remove a
menu from the screen.
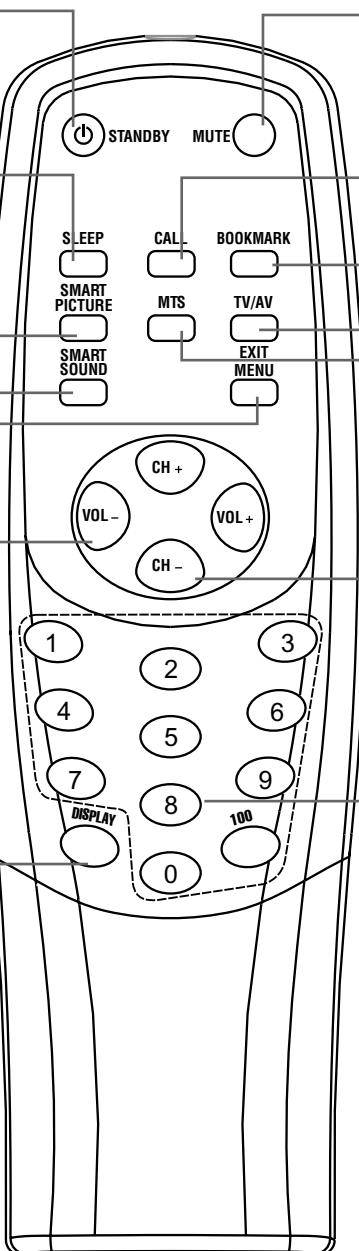
MUTE Button
Press to cancel or restore the TV sound.
Pressing the volume buttons (VOL ▲/▼
or VOL +/-) also will cancel mute and
restore the sound.

CALL Button
Press to switch between the two channels
you bookmarked.

BOOKMARK Button
Press to mark two channels that you can
recall with the CALL button. You cannot
bookmark the Audio/Video In channels
(VIDEO 1 and VIDEO 2).

TV/AV/EXIT Button
Press to select TV channels or the
Audio/Video In channels (VIDEO 1 or
VIDEO 2). Press to remove a TV menu.

MTS Button
Press to select a sound mode if available
with the TV programming: MONO,
STEREO, SAP, or MONO+SAP.
Details are on page 30.

CH (channel) +/– Buttons
Press to select memorized TV channels.

Number Buttons
Press to select TV channels directly. For
single-digit channels, press "0" first, then
the number of the channel.
For channels 100 and above, press the 100
button first, then the next two numbers of
the channel. For example, to choose chan-
nel 115, press the 100 button, then
Number 1, then Number 5.
(You can select channels above 69 only if
you have Cable TV. Make sure TV/CABLE
is set to CABLE. Details are on page 11.)

You can set the TV's on-screen menu to be in English or Spanish.

1 **Press MENU** to see the menu.

2 **Press VOL + or VOL -** to highlight **SET**.

3 **Press CH+ or CH-** to highlight **LANGUAGE**.

4 **Press VOL + or VOL -** to enter the LANGUAGE menu.

5 **Press CH+ or CH-** to select **ENGLISH or ESPANOL** (Spanish).

6 **Press VOL + or VOL -** to confirm your selection.

7 **Press TV/AV/EXIT** to remove the menu from the screen.

PIC. SND SET TUN.

COLOR   50
BRIGHTNESS   50
CONTRAST   50
SHARPNESS   50
TINT   0
BLUE BACK   ON

PIC. SND SET TUN.

CLOSED CAPTION   ⇨
PARENTAL CONTROL ⇨
TIMER   ⇨
LANGUAGE   ⇨
CHILD LOCK   ON

STANDBY MUTE

SLEEP   CALL   BOOKMARK
SMART
PICTURE   MTS   TV/AV
SMART   EXIT
SOUND   MENU

CH +
VOL -   VOL +
CH -

1   2   3
4   5   6
7   8   9
DISPLAY
0   100

PIC. SND SET TUN.

CLOSED CAPTION   ⇨
PARENTAL CONTROL ⇨
TIMER   ⇨
LANGUAGE   ⇨
CHILD LOCK   ON

SET   LANGUAGE

⊙ ENGLISH
○ ESPANOL
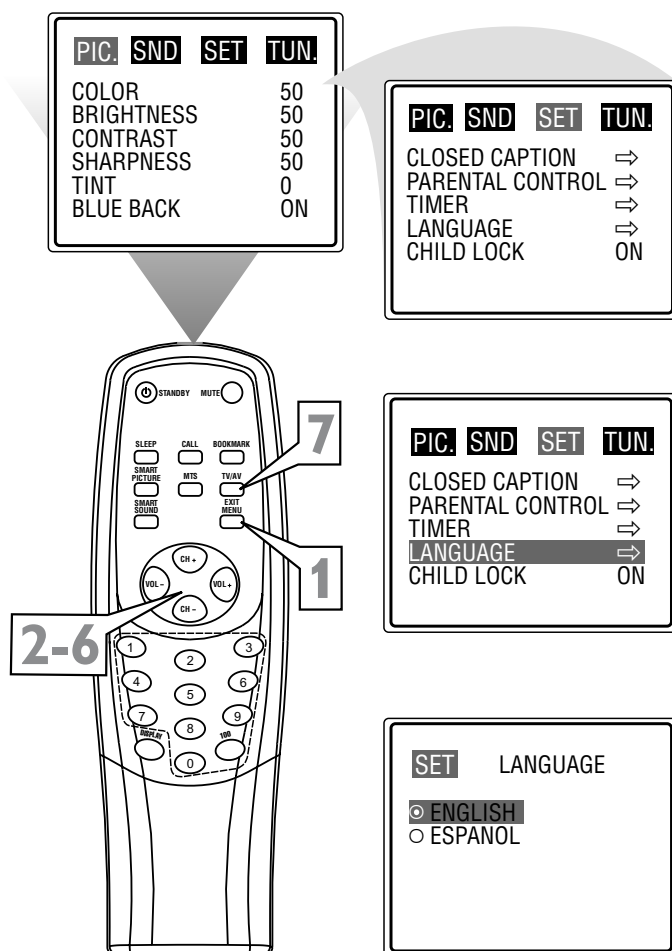
Helpful Hint

The Language control only affects the language of the TV menus. It does not change the other on-screen text features, such as Closed Captions.

It's important for the TV to know what type of sig-nal - Cable TV or a normal Antenna - you are using. To tell the TV whether you are using a Cable TV signal, set TV/CABLE to TV or CABLE as follows.

1 Press **MENU** to see the menu.

2 Press **VOL +** or **VOL -** to highlight **TUN**. (tuner).

3 Press **CH+** or **CH-** to highlight **TV/CABLE**.

4 Press **VOL +** or **VOL -** to select **TV or CABLE.**
Choose CABLE if you have Cable TV service. (See page five for connection details.) If you do not have Cable TV ser-vice and you connected an antenna to the TV, choose TV. (See page six for con-nection details.)

5 Press **TV/AV/EXIT** to remove the menu from the screen.

PIC.	SND	SET	TUN.
COLOR			50
BRIGHTNESS			50
CONTRAST			50
SHARPNESS			50
TINT			0
BLUE BACK			ON

PIC.	SND	SET	TUN.
CHANNEL			2
TV/CABLE			TV
ADD/ERASE			ADD
MANUAL			UP
AUTO PROGRAM			⇨

PIC.	SND	SET	TUN.
CHANNEL			2
TV/CABLE			TV
ADD/ERASE			ADD
MANUAL			UP
AUTO PROGRAM			⇨

OR

PIC.	SND	SET	TUN.
CHANNEL			2
TV/CABLE			CABLE
ADD/ERASE			ADD
MANUAL			UP
AUTO PROGRAM			⇨
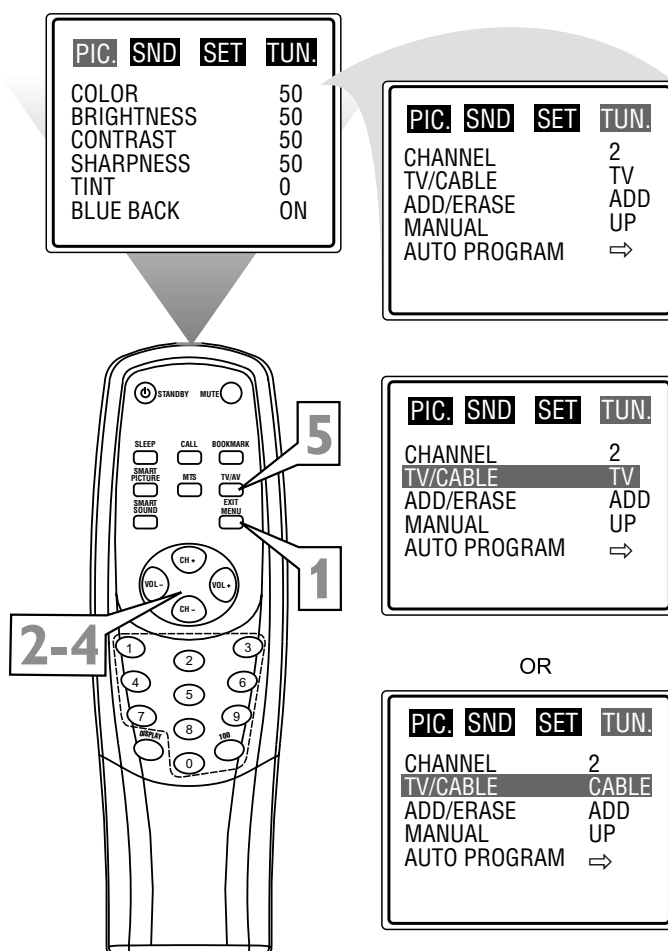
Helpful Hints

When CABLE is selected, channels 1-125 are available.

When TV is selected, only channels 2-69 are available.

You cannot select TUN. if the TV is on the VIDEO 1 or VIDEO 2 channel. Press TV/AV/EXIT repeatedly to get to the TV channels.

You can set your TV to receive local TV channels (from an Antenna) or Cable TV channels (when you have Cable TV service). Then, use AUTO PRO-GRAM to set up the channels that are available for you. This makes it easy for you to select only the available TV stations when you press CH+ or CH-. Before you start AUTO PROGRAM, connect the Antenna or Cable TV signal as detailed on pages five-six; set TV/CABLE as described on page 11.

1 **Press MENU** to see the menu.

2 **Press VOL + or VOL - repeatedly** to highlight **TUN.** (tuner).

3 **Press CH+ or CH-** to highlight **AUTO PROGRAM**.

4 **Press VOL +** to start programming TV channels. Press VOL- if you need to stop channel programming during the process.
When channel setup is complete, TUN-ING FINISHED will appear briefly. Then the TV will go to its lowest channel.

PIC. SND SET TUN.

COLOR	50
BRIGHTNESS	50
CONTRAST	50
SHARPNESS	50
TINT	0
BLUE BACK	ON

PIC. SND SET TUN.

CHANNEL	2
TV/CABLE	TV
ADD/ERASE	ADD
MANUAL	UP
AUTO PROGRAM	⇨

PIC. SND SET TUN.

CHANNEL	2
TV/CABLE	TV
ADD/ERASE	ADD
MANUAL	UP
AUTO PROGRAM	⇨

TUN.   AUTO PROGRAM

TV   45

AUTO PROGRAM

STOP   ⇦

TV 25
AUTO
MONO

Helpful Hints

Press CH + and CH- to see which channels are in the TV's memory. You can still select non-memorized channels using the Number buttons on the remote control.

To delete unwanted channels from the TV's memory or to add more channels, see ADD/ERASE on page 14.
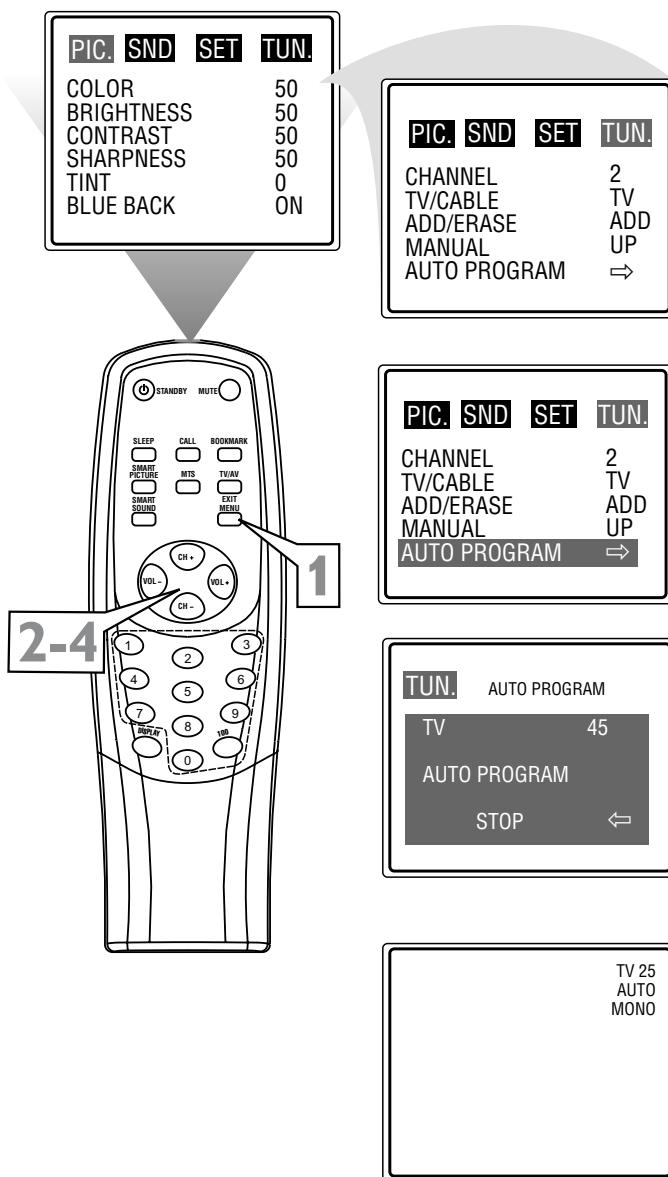
You cannot select TUN. if the TV is on the VIDEO 1 or VIDEO 2 channel. Press TV/AV/EXIT repeatedly to get to the TV channels.
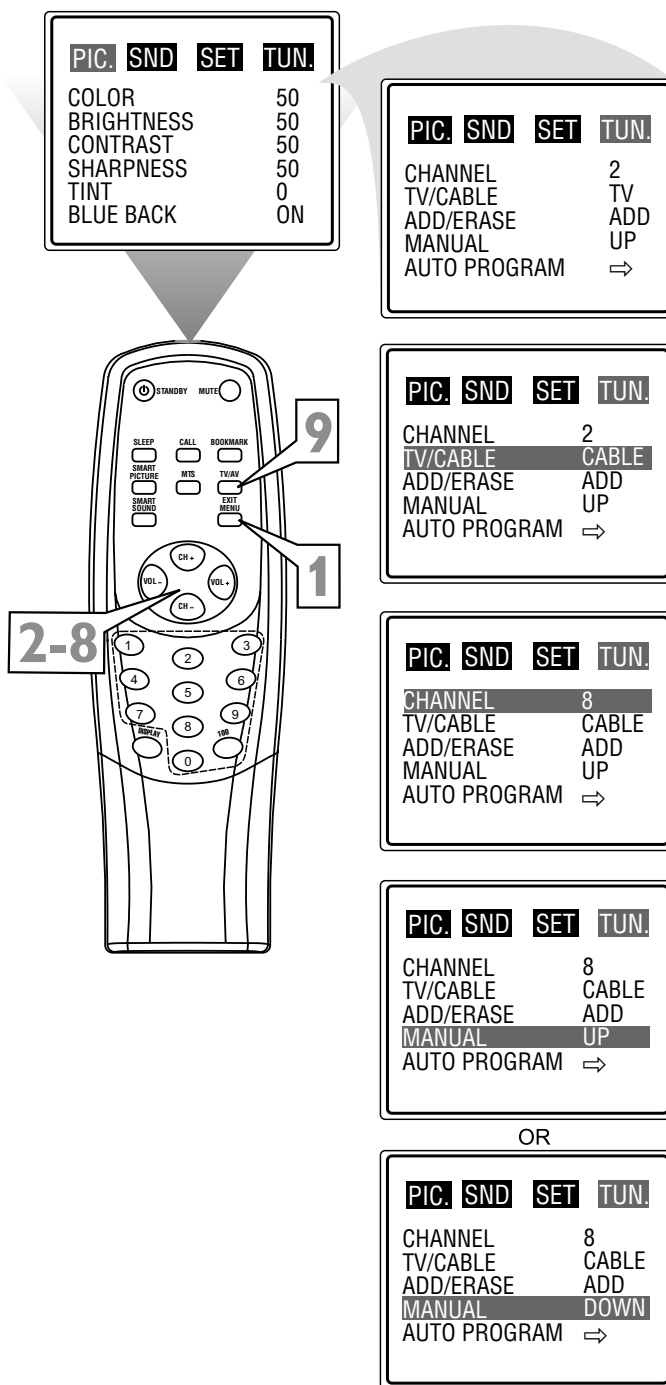
Manual Channel Tuning lets you quickly select the next available channel. For example, if you are looking for a channel between 60 and 70, start the search at channel 60 and go up.

1 **Press MENU** to see the menu.

2 **Press VOL + or VOL -** to highlight **TUN.** (tuner).

3 **Press CH+ or CH-** to highlight **TV/CABLE**.

4 **Press VOL + or VOL -** to select **TV** or **CABLE** (whichever you have). Details are on page 11.

5 **Press CH+ or CH-** to highlight **CHANNEL**.

6 **Press VOL+ or VOL-** to enter the channel number at which you want to begin the search.

7 **Press CH+ or CH-** to highlight **MANUAL.**

8 **Press VOL+ to start searching upward** (for example, starting at channel 60 and going up to 61, 62, 63, etc.). **Press VOL- when you find the channel** you want. This stops the search. Otherwise, the search will stop at the first available channel.

Or, press VOL- to start searching downward (for example, starting at channel 60 and going down to 59, 58, 57, etc.). **Then, press VOL+ when you find the channel** you want. This stops the search. Otherwise, the search will stop at the first available channel.

9 **Press TV/AV/EXIT** to remove the menu from the screen.

PIC.	SND	SET	TUN.
COLOR			50
BRIGHTNESS			50
CONTRAST			50
SHARPNESS			50
TINT			0
BLUE BACK			ON

PIC.	SND	SET	TUN.
CHANNEL			2
TV/CABLE			TV
ADD/ERASE			ADD
MANUAL			UP
AUTO PROGRAM			⇨

PIC.	SND	SET	TUN.
CHANNEL			2
TV/CABLE			CABLE
ADD/ERASE			ADD
MANUAL			UP
AUTO PROGRAM			⇨

PIC.	SND	SET	TUN.
CHANNEL			8
TV/CABLE			CABLE
ADD/ERASE			ADD
MANUAL			UP
AUTO PROGRAM			⇨

PIC.	SND	SET	TUN.
CHANNEL			8
TV/CABLE			CABLE
ADD/ERASE			ADD
MANUAL			UP
AUTO PROGRAM			⇨

OR

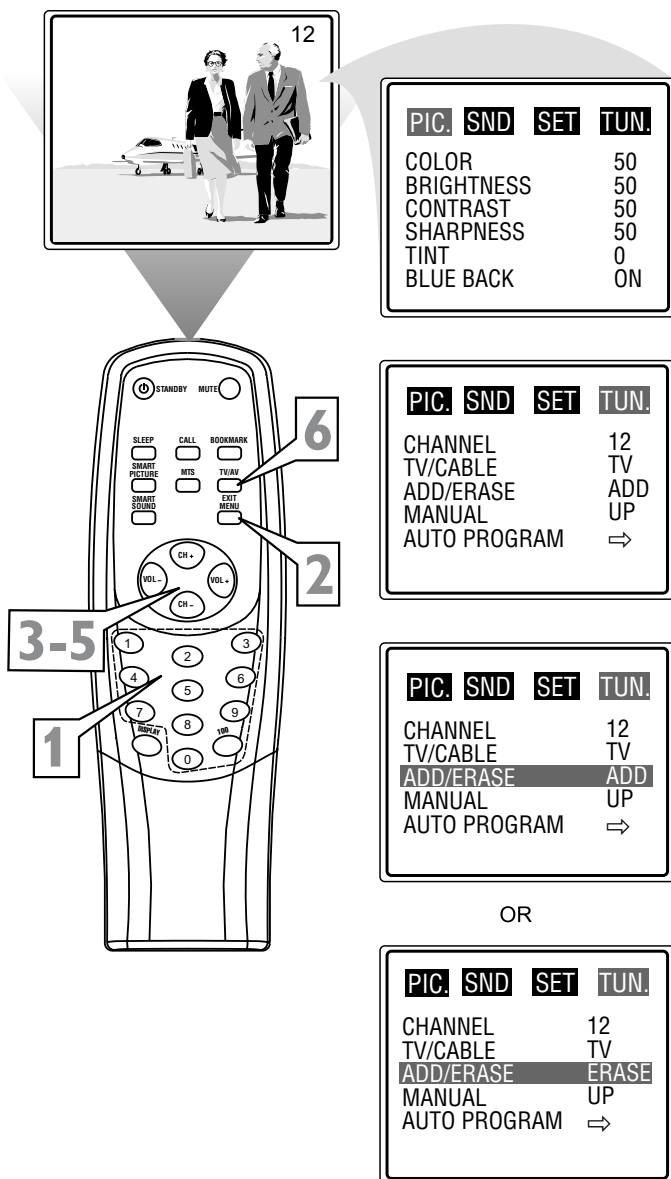| PIC.	SND	SET	TUN.
CHANNEL			8
TV/CABLE			CABLE
ADD/ERASE			ADD
MANUAL			DOWN
AUTO PROGRAM			⇨

Helpful Hint

You cannot select TUN. if the TV is on the VIDEO 1 or VIDEO 2 channel. Press TV/AV/EXIT repeatedly to get to the TV channels.

Adding or Erasing Channels

You can add or erase channels from the list in the TV's memory.

1 **Using the Number buttons,** select the channel you wish to add or erase.

2 **Press MENU** to see the menu.

3 **Press VOL + or VOL -** to highlight **TUN.** (tuner).

4 **Press CH + or CH-** to highlight **ADD/ERASE.**

5 **Press VOL + or VOL - to choose ADD or ERASE.**
If you select ADD, the channel will be available when you press CH+ and CH- to move through channels.
Choosing ERASE will remove the channel from the TVs memory. The channel will not be available when you flip through channels with the CH+ and CH- buttons.

6 **Press TV/AV/EXIT** to remove the menu from the screen.

PIC.	SND	SET	TUN.
COLOR			50
BRIGHTNESS			50
CONTRAST			50
SHARPNESS			50
TINT			0
BLUE BACK			ON

PIC.	SND	SET	TUN.
CHANNEL			12
TV/CABLE			TV
ADD/ERASE			ADD
MANUAL			UP
AUTO PROGRAM			⇨

PIC.	SND	SET	TUN.
CHANNEL			12
TV/CABLE			TV
ADD/ERASE			ADD
MANUAL			UP
AUTO PROGRAM			⇨

OR

PIC.	SND	SET	TUN.
CHANNEL			12
TV/CABLE			TV
ADD/ERASE			ERASE
MANUAL			UP
AUTO PROGRAM			⇨

Helpful Hint
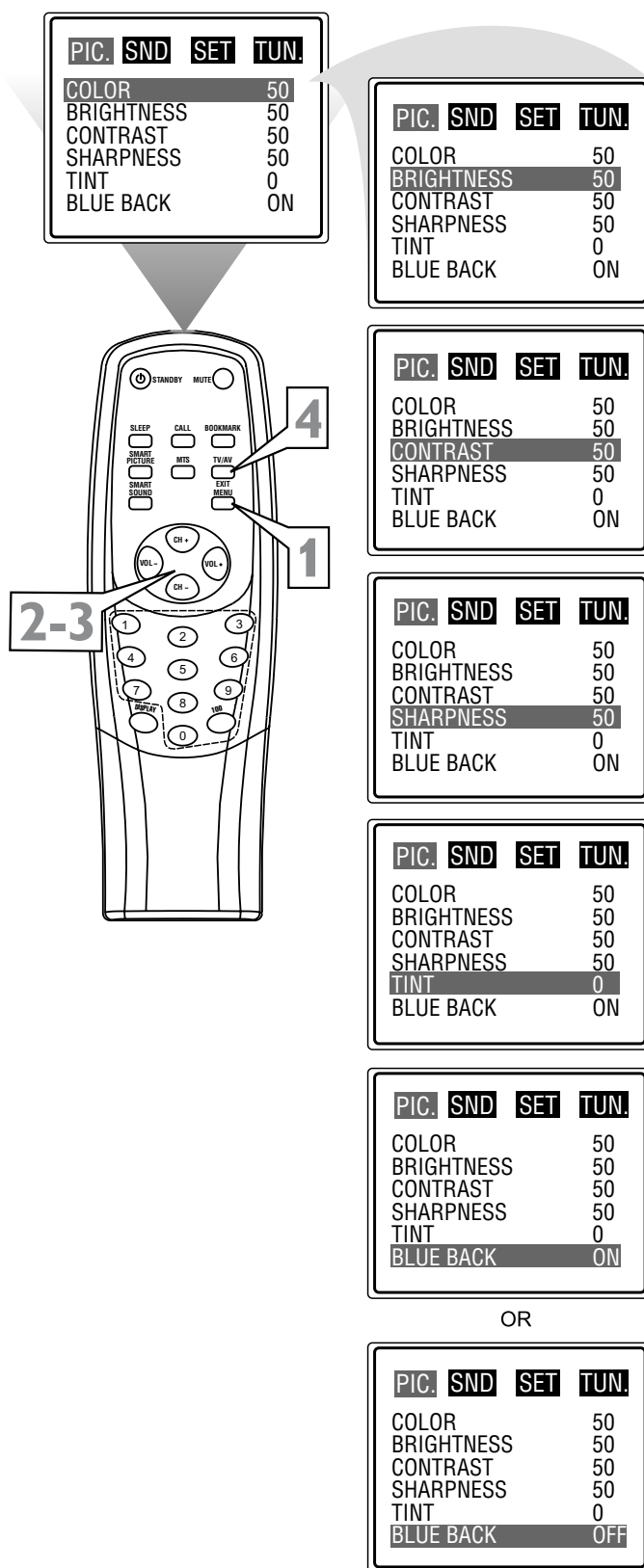
You cannot select TUN. if the TV is on the VIDEO 1 or VIDEO 2 channel. Press TV/AV/EXIT repeatedly to get to the TV channels.

To adjust your TV picture, select a channel and follow the steps below.

1 **Press MENU** to see the menu.

2 **Press CH + or CH-** to highlight your choice: BRIGHTNESS, COLOR, CONRAST, SHARPNESS, TINT, or BLUE BACK (background).

3 **Press VOL + or VOL - to increase or decrease the element** you chose. However, you can turn BLUE BACK to only ON or OFF (see below).

4 **Press TV/AV/EXIT** to remove the menu from the screen.

PIC.	SND	SET	TUN.
COLOR			50
BRIGHTNESS			50
CONTRAST			50
SHARPNESS			50
TINT			0
BLUE BACK			ON

PIC.	SND	SET	TUN.
COLOR			50
BRIGHTNESS			50
CONTRAST			50
SHARPNESS			50
TINT			0
BLUE BACK			ON

PIC.	SND	SET	TUN.
COLOR			50
BRIGHTNESS			50
CONTRAST			50
SHARPNESS			50
TINT			0
BLUE BACK			ON

PIC.	SND	SET	TUN.
COLOR			50
BRIGHTNESS			50
CONTRAST			50
SHARPNESS			50
TINT			0
BLUE BACK			ON

PIC.	SND	SET	TUN.
COLOR			50
BRIGHTNESS			50
CONTRAST			50
SHARPNESS			50
TINT			0
BLUE BACK			ON

PIC.	SND	SET	TUN.
COLOR			50
BRIGHTNESS			50
CONTRAST			50
SHARPNESS			50
TINT			0
BLUE BACK			ON

OR

PIC.	SND	SET	TUN.
COLOR			50
BRIGHTNESS			50
CONTRAST			50
SHARPNESS			50
TINT			0
BLUE BACK			OFF

Helpful Hints

BRIGHTNESS Brighten the darkest parts of the picture.

COLOR Add or reduce color.

CONTRAST Adjust the distinction between the black and white parts of the picture.

SHARPNESS Improve picture detail.

TINT Obtain natural skin tones.

BLUE BACK Turn this option ON or OFF. If you choose ON, a solid blue background screen will appear if the TV is on a weak channel (for example, if reception is very poor or if the station has gone off the air for the night). After being on such a channel for 15 minutes, the TV will turn itself off automatically.

Whether you're watching a movie or a video game, your TV has automatic picture settings matched for your current program. SmartPicture resets your TV's video settings for different types of programs and viewing conditions. Each SmartPicture setting is preset at the factory to automatically adjust the TV's Brightness, Color, Contrast, Sharpness, and Tint.

1 **Press SMART PICTURE** on the remote control. The current SmartPicture setting will appear on the screen.

2 **Press SMART PICTURE repeatedly** to select PERSONAL, MOVIES, SPORTS, or WEAK SIGNAL.
The PERSONAL setting is what you specify with the picture adjustments as described on page 15. PERSONAL is the only SmartPicture setting you can change. All others are set at the factory during production.
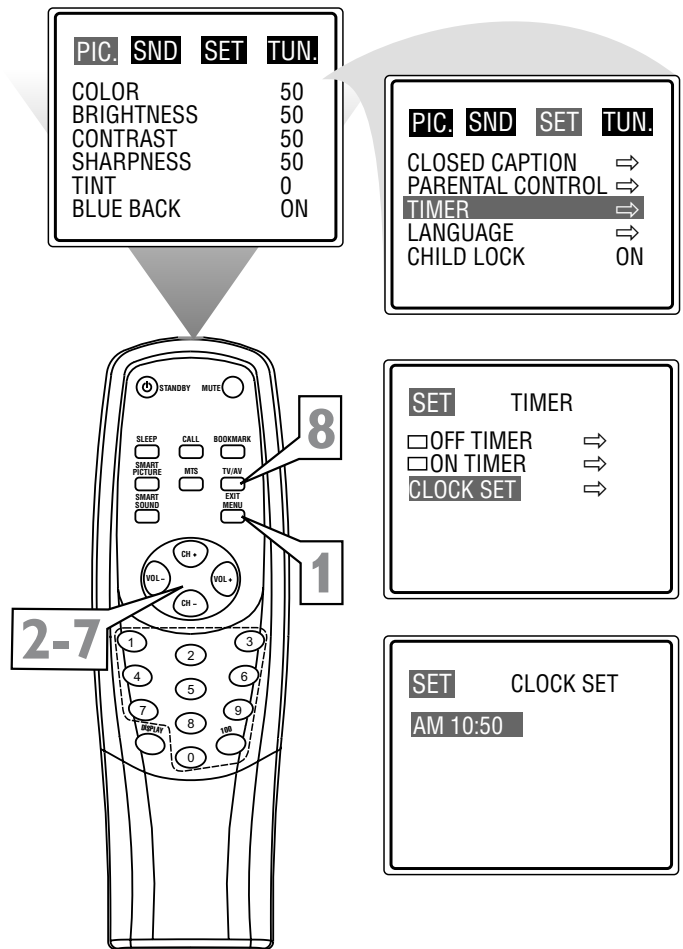
PICTURE PERSONAL

OR

PICTURE MOVIES

OR

PICTURE SPORTS

OR

PICTURE WEAK SIGNAL

1-2
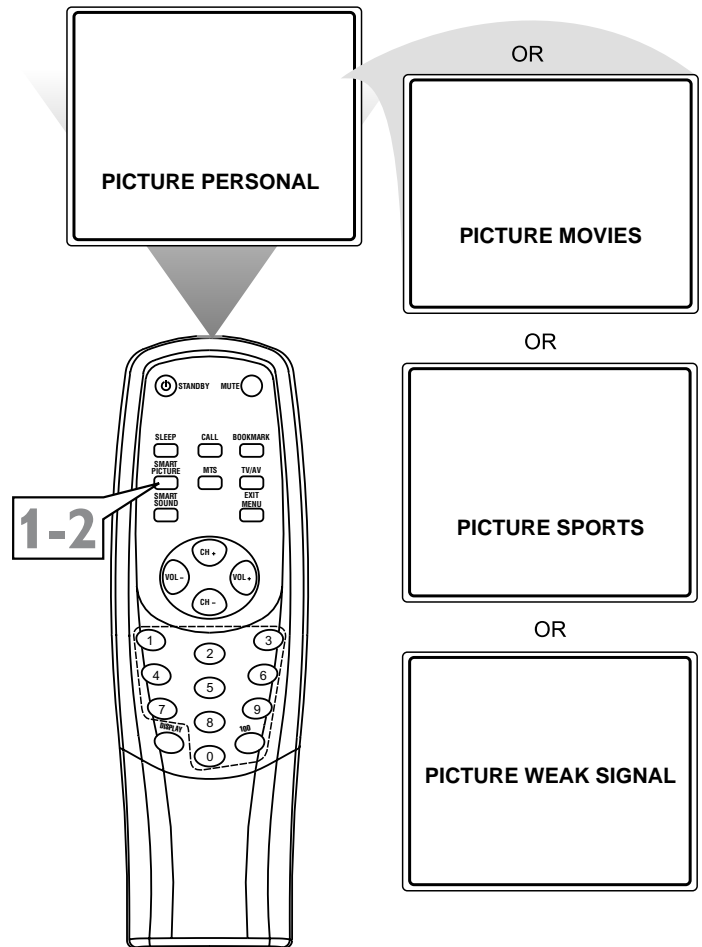
*F*ollow these steps to set your TV's clock.

1 **Press MENU** to show the on-screen menu.

2 **Press VOL+ or VOL-** to highlight **SET.**

3 **Press CH+ or CH-** to highlight **TIMER.**

4 **Press VOL+ or VOL-** to display the TIMER features.

5 **Press CH+ or CH-** to highlight **CLOCK SET.**

6 **Press VOL+ or VOL-** to enter the **CLOCK SET** menu.

7 **Press VOL+ or VOL-** repeatedly to enter the current time. Press and hold VOL+ or VOL- to change the time quickly in 10-minute increments.

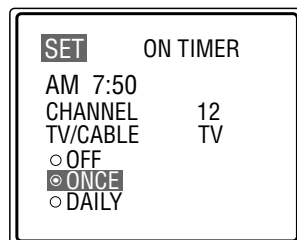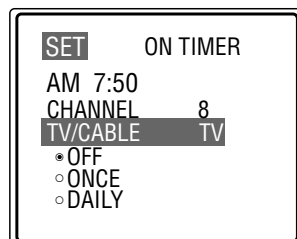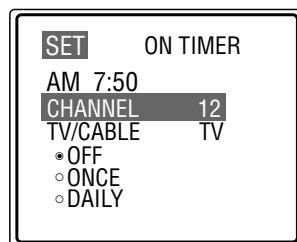**8** **Press TV/AV/EXIT** to remove the menu from the screen.

PIC.	SND	SET	TUN.

COLOR   50
BRIGHTNESS   50
CONTRAST   50
SHARPNESS   50
TINT   0
BLUE BACK   ON

PIC.	SND	SET	TUN.

CLOSED CAPTION   ⇨
PARENTAL CONTROL ⇨
TIMER   ⇨
LANGUAGE   ⇨
CHILD LOCK   ON

SET   TIMER

☐OFF TIMER   ⇨
☐ON TIMER   ⇨
CLOCK SET   ⇨

SET   CLOCK SET

AM 10:50

2-7

1

8

STANDBY   MUTE

SLEEP   CALL   BOOKMARK
SMART
PICTURE   MTS   TV/AV
SMART   EXIT
SOUND   MENU

CH +
VOL -   VOL +
CH -

1   2   3
4   5   6
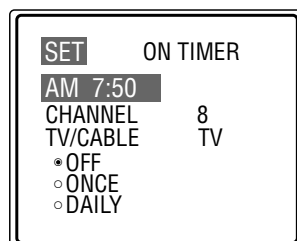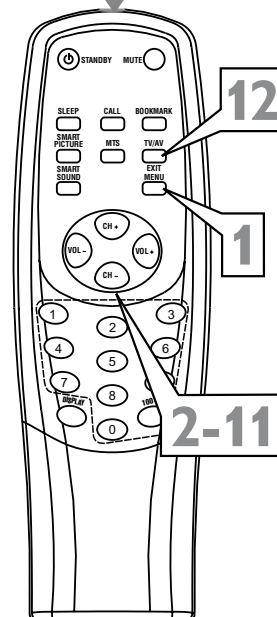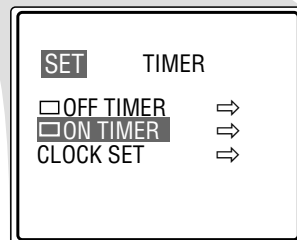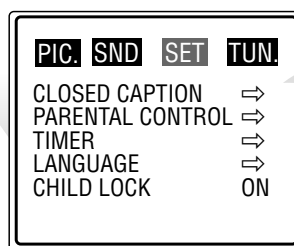7   8   9
DISPLAY
100
0

Helpful Hint

If the power fails, you must reset the clock.

On-Timer

To turn on the TV to a specific channel at a specific time, use the On-Timer. Before you begin, set the clock correctly. Details are on page 17.

1   **Press MENU** to show the on-screen menu.

2   **Press VOL+ or VOL-** to highlight **SET.**

3   **Press CH+ or CH-** to highlight **TIMER, then press VOL+ or VOL-.**

4   **Press CH+ or CH-** to highlight **ON TIMER, then press VOL+ or VOL-.**

5   **While the time is highlighted (top line with AM or PM), press VOL+ or VOL-** to enter the **ON time.** Hold down VOL+ or VOL- to change the time quickly in 10-minute increments. This will be the time at which the TV will turn itself on.

6   **Press CH+ or CH-** to highlight **CHANNEL.**

7   **Press VOL+ or VOL-** to enter the channel number. This will be the channel to which the TV turns on at the specified time.

8   **Press CH+ or CH-** to highlight **TV/CABLE.**

9   **Press VOL+ or VOL-** to select **TV** or **CABLE,** depending on whether you have Cable TV service or not. Details are on page 11.

10   **Press CH+ or CH-** to highlight **OFF, ONCE, or DAILY.** If you select ONCE, the timer will turn on the TV one time within the next 24 hours only.
If you select DAILY, the timer will turn on the TV at the same time and to the same channel every day.
Choose OFF to cancel the On-Timer.

11   **Press VOL+ or VOL-** to confirm your choice.

12   **Press TV/AV/EXIT to remove the menu.**

PIC. SND SET TUN.

CLOSED CAPTION   ⇨
PARENTAL CONTROL ⇨
TIMER   ⇨
LANGUAGE   ⇨
CHILD LOCK   ON

SET   TIMER

☐OFF TIMER   ⇨
☐ON TIMER   ⇨
CLOCK SET   ⇨

SET   ON TIMER

AM 7:50
CHANNEL   8
TV/CABLE   TV
◉ OFF
○ ONCE
○ DAILY

SET   ON TIMER

AM 7:50
CHANNEL   12
TV/CABLE   TV
◉ OFF
○ ONCE
○ DAILY

SET   ON TIMER

AM 7:50
CHANNEL   8
TV/CABLE   TV
◉ OFF
○ ONCE
○ DAILY

SET   ON TIMER

AM 7:50
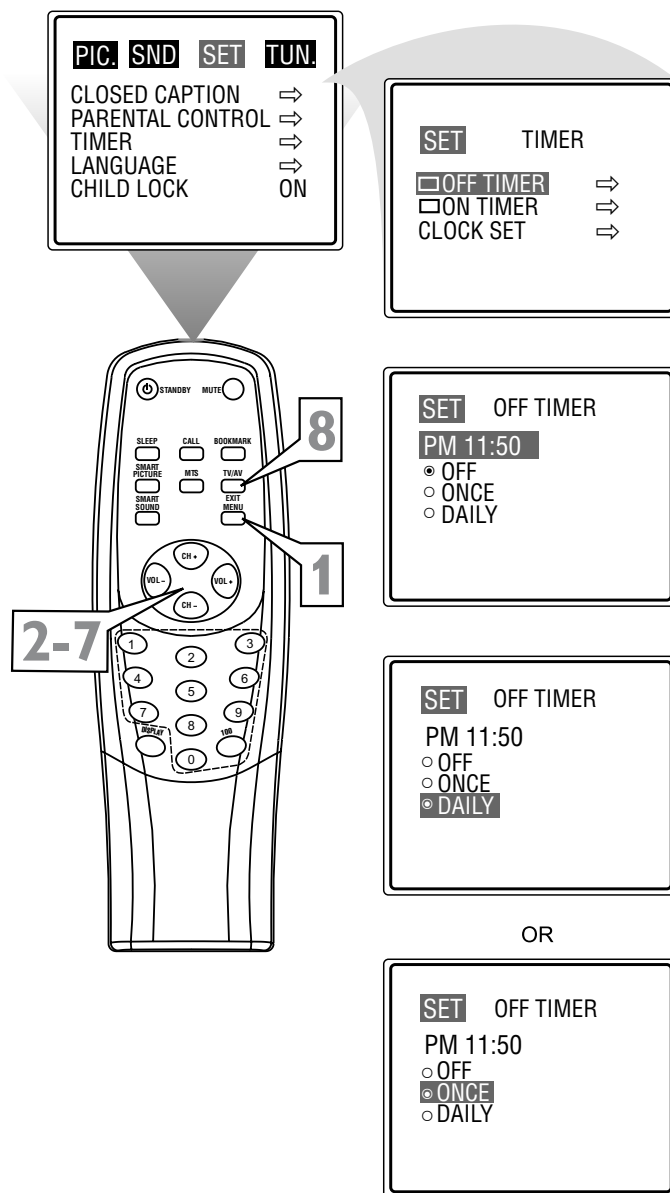CHANNEL   12
TV/CABLE   TV
○ OFF
◉ ONCE
○ DAILY

Off-Timer

To turn off the TV at a specific time every day, use the Off-Timer. Before you begin, set the clock correctly. Details are on page 17.

1 **Press MENU** to show the on-screen menu.

2 **Press VOL+ or VOL-** to highlight **SET.**

3 **Press CH+ or CH-** to highlight **TIMER, then press VOL+ or VOL-.**

4 **Press CH+ or CH-** to highlight **OFF TIMER, then press VOL+ or VOL-.**

5 **While the time is highlighted (top line with AM or PM), press VOL+ or VOL-** to enter the **OFF time.** Hold down VOL+ or VOL- to change the time quickly in 10-minute increments. This will be the time at which the TV will turn itself off.

6 **Press CH+ or CH-** to highlight **OFF, ONCE, or DAILY.** If you select ONCE, the timer will turn off the TV one time within the next 24 hours only.
If you select DAILY, the timer will turn off the TV at the same time every day.
Choose OFF to cancel the Off-Timer.

7 **Press VOL+ or VOL-** to confirm your choice.

8 **Press TV/AV/EXIT to remove the menu.**

PIC. SND SET TUN.

CLOSED CAPTION ⇨
PARENTAL CONTROL ⇨
TIMER ⇨
LANGUAGE ⇨
CHILD LOCK ON

SET   TIMER

OFF TIMER ⇨
ON TIMER ⇨
CLOCK SET ⇨

SET   OFF TIMER

PM 11:50
⦿ OFF
○ ONCE
○ DAILY

SET   OFF TIMER

PM 11:50
○ OFF
○ ONCE
⦿ DAILY

OR

SET   OFF TIMER

PM 11:50
○ OFF
⦿ ONCE
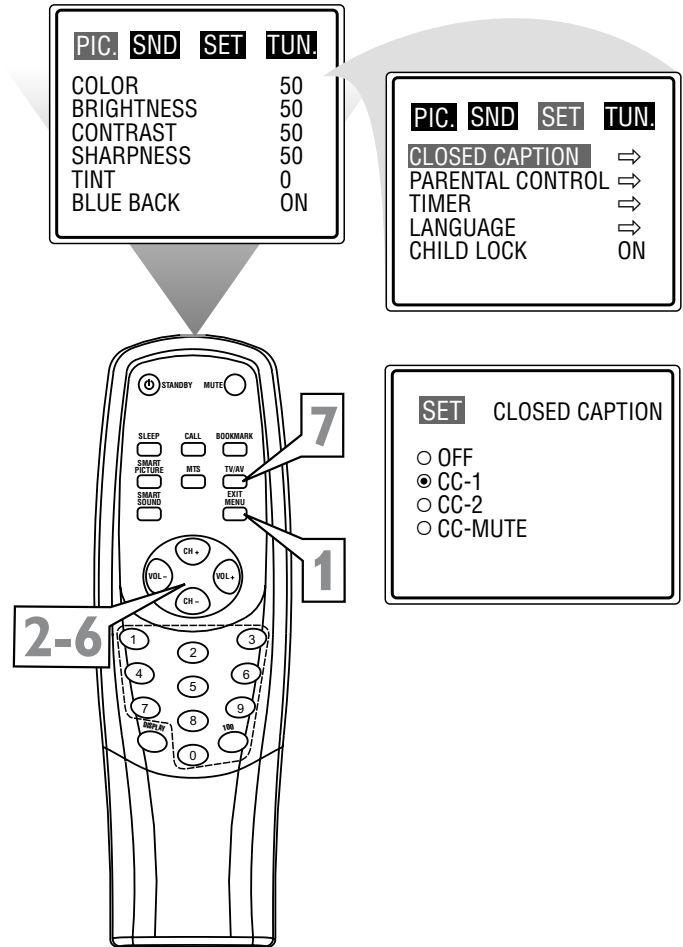○ DAILY

Closed Captioning (CC) lets you read the voice content of TV programs on the TV screen. Designed to help the hearing impaired, on-screen text boxes will show dialog, conversations, and activity during TV programming.

1 **Press MENU** to show the on-screen menu.

2 **Press VOL+ or VOL-** until **SET** is highlighted.

3 **Press CH+ or CH- repeatedly** to highlight **CLOSED CAPTION.**

4 **Press VOL+ or VOL-** to display the **CLOSED CAPTION** menu.

5 **Press CH+ or CH-** to select the closed caption you want **(OFF, CC-1, CC-2, or CC-MUTE).** CC-MUTE sets the TV to show closed captions when you press MUTE. The TV volume will be disabled until you press MUTE again to restore the sound**.**

6 **Press VOL+ or VOL-** to confirm your selection.

7 **Press TV/AV/EXIT** to remove the menu.

PIC.	SND	SET	TUN.
COLOR			50
BRIGHTNESS			50
CONTRAST			50
SHARPNESS			50
TINT			0
BLUE BACK			ON

PIC.	SND	SET	TUN.
CLOSED CAPTION			⇨
PARENTAL CONTROL			⇨
TIMER			⇨
LANGUAGE			⇨
CHILD LOCK			ON

SET CLOSED CAPTION
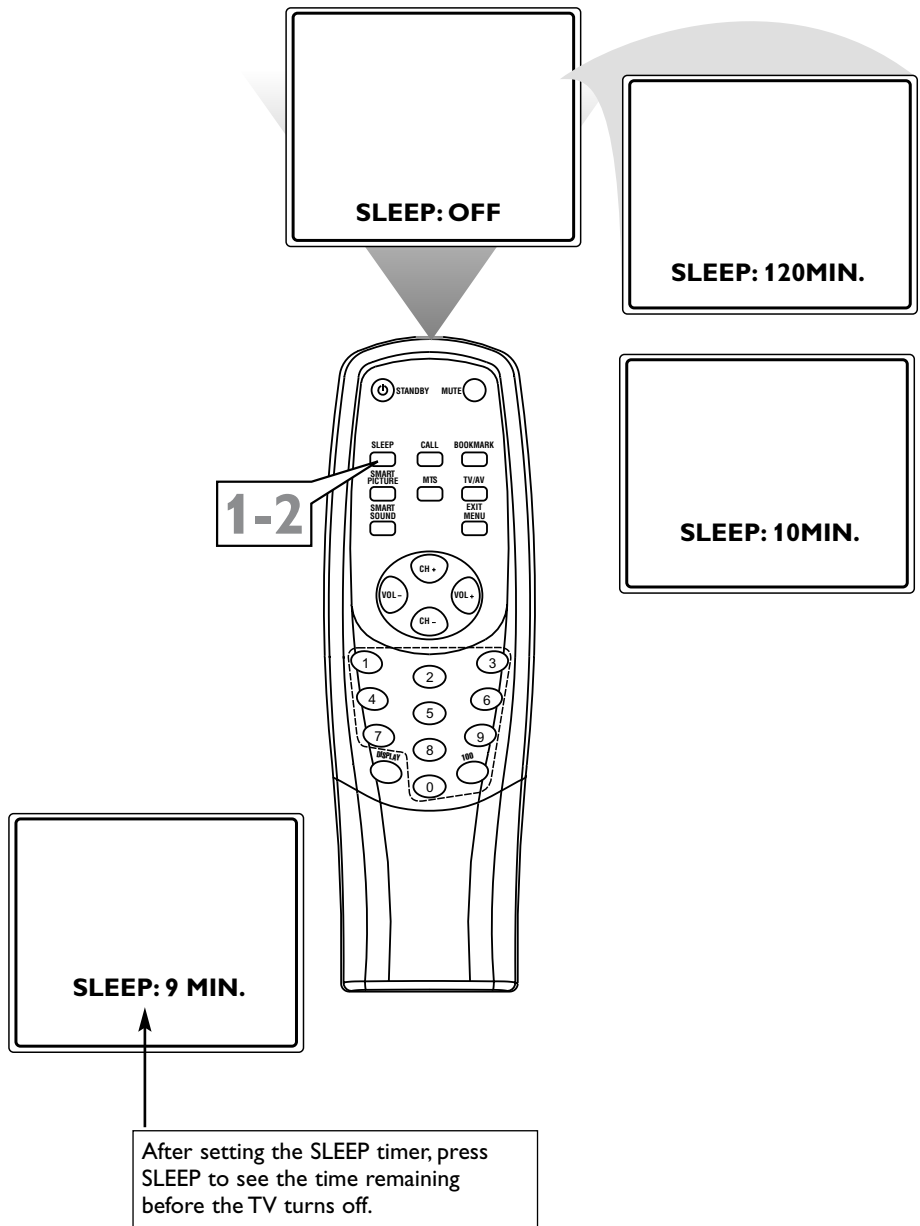
○ OFF
◉ CC-1
○ CC-2
○ CC-MUTE

Helpful Hints

Not all TV programs and commercials are broadcast with Closed Caption information. Neither are all Closed Caption modes transmitted by a station for a closed caption program. See your TV listings for the stations and times of Closed Caption shows.

Sleep Timer

Have you ever fallen asleep in front of the TV, only to have it wake you up at two in the morning with a test pattern screeching in your ears? Well, your TV can save you that trouble by turning itself off.

1 **Press SLEEP.** The SLEEP display will appear on the screen.

2 **Within five seconds, press SLEEP** to pick the amount of time (in 10-minute increments up to 120 minutes) before the TV will turn itself off.

SLEEP: OFF

SLEEP: 120MIN.

SLEEP: 10MIN.

1-2

SLEEP: 9 MIN.

After setting the SLEEP timer, press SLEEP to see the time remaining before the TV turns off.

SmartLock processes program content advisories from broadcasters. SmartLock can respond to the content advisories and block objectionable content (offensive language, violence, sexual situations, etc.). This is a great feature to censor the type of programming children watch.

SmartLock offers various blocking options from which to choose:

MASTER ENABLE: This is the "master switch" for SmartLock. When ON, all blocking/censoring you have set is enabled. When OFF, all blocking is disabled.

BLOCK UNRATED: All unrated programs (based on Movie Ratings or TV Ratings) will be blocked if this feature is ON and MASTER ENABLE is ON.

BLOCK NO RATING: All programming with no content advisory data will be blocked if this feature is ON and MASTER ENABLE is ON.

After you set a secret code, you can block up to six ratings in TV Ratings or Movie Ratings. These ratings are set by the Motion Pictures Association of America and TV broadcasters.

MPAA Ratings
(Motion Pictures Association of America)

G: General Audience - All ages admitted. Most parents would find this program suitable for all ages. This type of programming contains little or no violence, no strong language, and little or no sexual dialog or situations.

PG: Parental Guidance Suggested - This programming contains material that parents may find unsuitable for younger children. It may contain one or more of the following: moderate violence, some sexual situations, infrequent coarse language, or some suggestive dialog.

PG-13: Parents Strongly Cautioned - This programming contains material that parents may find unsuitable for children under the age of 13. It contains one or more of the following: violence, sexual situations, coarse language, or suggestive dialog.

R: Restricted - This programming is specifically designed for adults. Anyone under the age of 17 should only view this programming with an accompanying parent or adult guardian. It contains one or more of the following: intense violence, intense sexual situations, strong coarse language, or intensely suggestive dialog.

NC 17: No children under the age of 17 will be admitted. - This type of programming should be viewed by adults only. It contains graphic violence, explicit sex, or crude, indecent language.

X: Adults Only - This type of programming contains one or more of the following: very graphic violence, very graphic and explicit or indecent sexual acts, very coarse and intensely suggestive language.

TV Ratings
(TV Broadcasters)

TV-Y (**All children** - *Appropriate for all children.*) Designed for a very young audience, including children ages 2-6. This type of programming is not expected to frighten younger children.

TV-Y7 (**Directed to Older Children** - *Designed for children age 7 and above.*) It may be more appropriate for children who can distinguish between make-believe and reality. This programming may include mild fantasy and comic violence (FV or fantasy violence).

TV-G (**General Audience** - *Most parents would find this programming suitable for all ages.*) This type of programming contains little or no violence, no strong language, and little or no sexual dialog or situations.

TV-PG (**Parental Guidance Suggested** - *Contains material that parents may find unsuitable for younger children.*) This type of programming contains one or more of the following: Moderate violence (V), some sexual situations (S), infrequent coarse language (L), or some suggestive dialog (D).

TV-14 (**Parents Strongly Cautioned** - *Contains some material that many parents would find unsuitable for children under 14 years of age.*) This type of programming contains one or more of the following: intense violence (V), intense sexual situations (S), strong coarse language (L), or intensely suggestive dialog (D).

TV-MA (**Mature Audience Only** - *Specifically designed to be viewed by adults and may be unsuitable for children under 17.*) This type of programming contains one or more of the following: graphic violence (V), explicit sexual situations (S), or crude, indecent language (L).
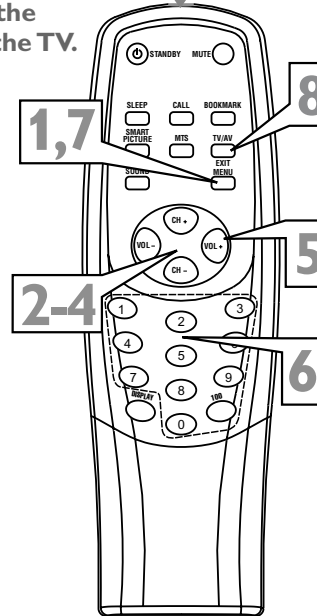
Parental Control Secret Code

*O*ver the next few pages you'll learn how to block programs and understand the rating terms for certain broadcasts. First, set a secret code.

1 **Press MENU** to show the on-screen menu.

2 **Press VOL+ or VOL-** to highlight **SET.**

3 **Press CH+ or CH-** to highlight **PARENTAL CONTROL.**

4 **Press VOL+ or VOL-** to display the **SECRET CODE** screen.

5 **Press VOL+** (on the remote) **and the CH+ button on the front of the TV at the same time.**

6 **Press the Number buttons to enter a four-digit code.** The code will appear on the screen as you enter it. The code "0000" is the default of the TV. If you have not set up a code previously, then "0000" is the code. You cannot use "0000" after you set your own code (unless you reset the code to "0000").

7 **Press MENU to save the code.**

8 The Parental Control menu will appear next. **Press TV/AV/EXIT to remove the menu**, or continue from this point to change your Parental Control settings.

5 - Also press **CH+ on the front of the TV.**

| PIC. | SND | SET | TUN. |
COLOR 50
BRIGHTNESS 50
CONTRAST 50
SHARPNESS 50
TINT 0
BLUE BACK ON

| PIC. | SND | SET | TUN. |
CLOSED CAPTION ⇨
PARENTAL CONTROL ⇨
TIMER ⇨
LANGUAGE ⇨
CHILD LOCK ON

| PIC. | SND | SET | TUN. |
CLOSED CAPTION ⇨
PARENTAL CONTROL ⇨
TIMER ⇨
LANGUAGE ⇨
CHILD LOCK ON

SET PARENTAL CONTROL

ENTER SECRET CODE:
▬ ▬ ▬ ▬

Helpful Hint

You cannot change Parental Control settings without knowing the secret code. If your code changes, someone else has altered it and possibly viewed blocked channels.

There are two types of ratings for Parental Control. One is based on movie industry ratings. The other is based on TV industry ratings. Both can be used to censor programming.
Let's first look at the MPAA Rating options of Parental Control.

1 **Press MENU** to show the on-screen menu.

2 **Press VOL+ or VOL-** to highlight **SET.**

3 **Press CH+ or CH-** to highlight **PARENTAL CONTROL.**

4 **Press VOL+ or VOL-** to display the **SECRET CODE** screen.

5 **Press the Number buttons** to enter your four-digit secret code.

6 **Press CH+ or CH-** to highlight **MPAA RATING.**

7 **Press VOL+ or VOL-** to display the **MPAA ratings (G, PG, PG-13, R, NC-17, and X).**

8 **Press CH+ or CH-** to select the rating you want to block.

9 **Press VOL+ or VOL-** to block (or unblock) the rating. A checkmark will appear to the left of the rating when blocked.
When you block a rating, higher ratings are blocked automatically. To unblock all the ratings, select **CLEAR.**

10 **Press TV/AV/EXIT** to remove the menu.

```
PIC.  SND  SET  TUN.

COLOR           50
BRIGHTNESS      50
CONTRAST        50
SHARPNESS       50
TINT             0
BLUE BACK       ON
```
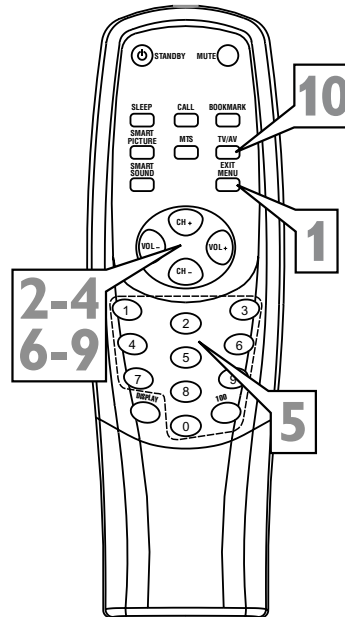
```
PIC.  SND  SET  TUN.

CLOSED CAPTION      ⇨
PARENTAL CONTROL    ⇨
TIMER               ⇨
LANGUAGE            ⇨
CHILD LOCK         ON
```

```
PIC.  SND  SET  TUN.

CLOSED CAPTION      ⇨
PARENTAL CONTROL    ⇨
TIMER               ⇨
LANGUAGE            ⇨
CHILD LOCK         ON
```

```
SET  PARENTAL CONTROL


ENTER SECRET CODE:
     ▭▭▭▭
```

```
SET  PARENTAL CONTROL

▭ MPAA RATING
▭ TV PARENTAL GUIDELINES
BLOCK UNRATED       OFF
BLOCK NO RATING     OFF
MASTER ENABLE       OFF
```

```
SET  MPAA

▭ CLEAR
▭ G
▭ PG
▭ PG-13
☑ R
☑ NC-17
☑ X
```
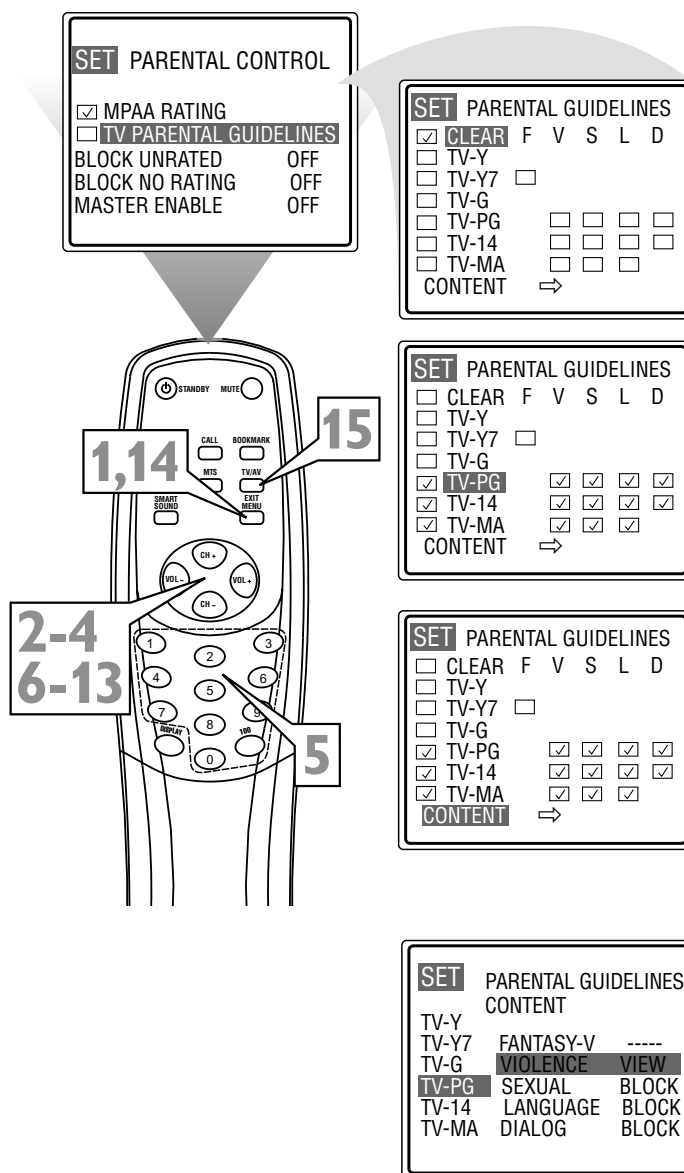
Helpful Hint

Blocking any rating (ON) will block all the higher ratings automatically. For example, if R is blocked manually, NC 17 and X will be blocked automatically.
To turn a rating OFF, set each rating individually.

Some program ratings are based on TV industry ratings as described below.

1 **Press MENU** to see the menu.

2 **Press VOL+ or VOL- repeatedly** to highlight **SET.**

3 **Press CH+ or CH-** to highlight **PARENTAL CONTROL.**

4 **Press VOL+ or VOL-** to see the **SECRET CODE** screen.

5 **Press the Number buttons** to enter your four-digit secret code.

6 **Press CH+ or CH-** to highlight **TV PARENTAL GUIDELINES.**

7 **Press VOL+ or VOL-** to display the **Parental Guidelines** (TV-Y, TV-Y7, TV-G, TV-PG, TV-14, or TV-MA).

8 **Press CH+ or CH-** to select a rating.

9 **Press VOL+ or VOL-** to turn the rating on or off. A checkmark appears when the rating is blocked. TV-Y and TV-G can be turned on (to block viewing) or off (to allow viewing) only.
TV-Y7, TV-PG, TV-14, and TV-MA can be customized to block V (violence), F (fantasy), S (sexual situations), L (coarse language), or D (suggestive dialog).
To do so, continue with these steps.

10 **Press CH+ or CH-** to highlight **CONTENT.**

11 **Press VOL+ or VOL-** to enter the **CONTENT** menu.

12 **Press CH+ or CH-** to select a rating, then **press VOL+.**

13 **Press CH+ or CH-** to select the sub-rating (FANTASY-V, VIOLENCE, SEXUAL, LANGUAGE, or DIALOG), **then press VOL+ or VOL-** to BLOCK or VIEW that subrating.

14 **Press MENU** to return to the PARENTAL GUIDELINES screen and check your settings. A checkmark appears when the subrating is blocked.

15 **Press TV/AV/EXIT** to remove the menu.

SET PARENTAL CONTROL

☑ MPAA RATING
☐ TV PARENTAL GUIDELINES
BLOCK UNRATED   OFF
BLOCK NO RATING   OFF
MASTER ENABLE   OFF

SET PARENTAL GUIDELINES
☑ CLEAR F V S L D
☐ TV-Y
☐ TV-Y7 ☐
☐ TV-G
☐ TV-PG   ☐ ☐ ☐ ☐
☐ TV-14   ☐ ☐ ☐ ☐
☐ TV-MA   ☐ ☐ ☐
  CONTENT   ⇨

SET PARENTAL GUIDELINES
☐ CLEAR F V S L D
☐ TV-Y
☐ TV-Y7 ☐
☐ TV-G
☑ TV-PG   ☑ ☑ ☑ ☑
☑ TV-14   ☑ ☑ ☑ ☑
☑ TV-MA   ☑ ☑ ☑
  CONTENT   ⇨

SET PARENTAL GUIDELINES
☐ CLEAR F V S L D
☐ TV-Y
☐ TV-Y7 ☐
☐ TV-G
☑ TV-PG   ☑ ☑ ☑ ☑
☑ TV-14   ☑ ☑ ☑ ☑
☑ TV-MA   ☑ ☑ ☑ ☑
 CONTENT   ⇨

SET PARENTAL GUIDELINES
        CONTENT
TV-Y
TV-Y7   FANTASY-V   -----
TV-G   VIOLENCE   VIEW
TV-PG   SEXUAL   BLOCK
TV-14   LANGUAGE   BLOCK
TV-MA   DIALOG   BLOCK

1,14
15
2-4 6-13
5

Helpful Hints

Blocking any rating will block higher ratings automatically.
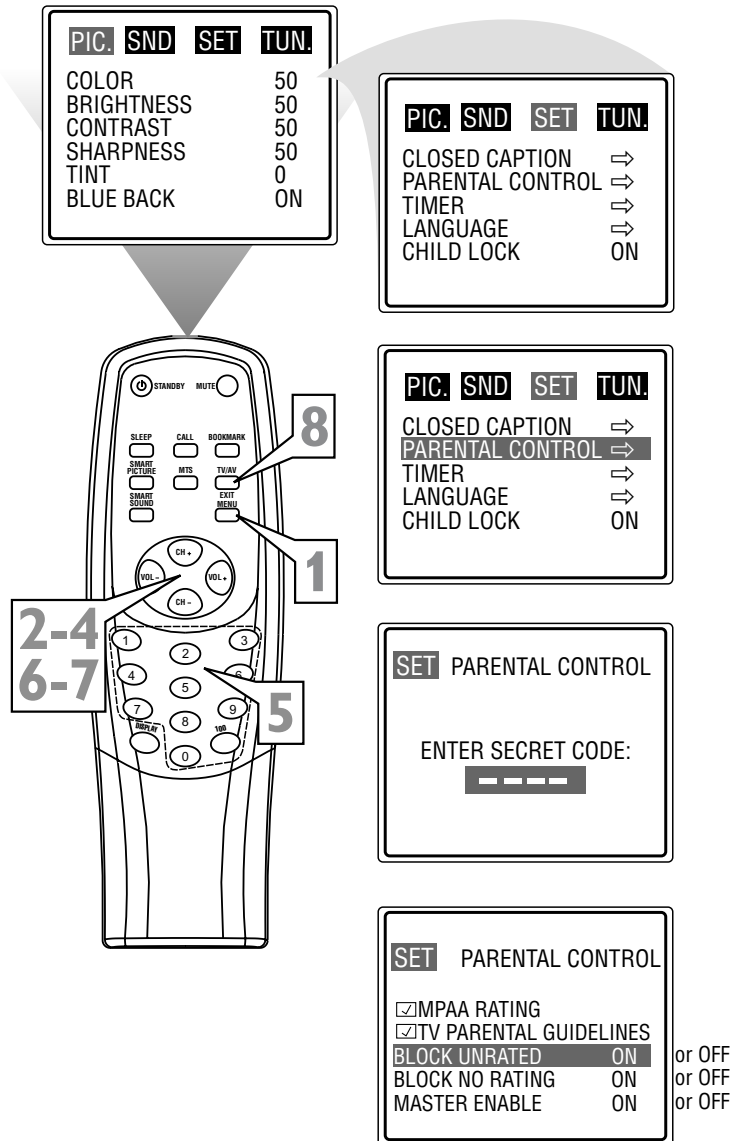
To unblock all the ratings, select CLEAR.

After setting your Secret Code, Parental Control offers special blocking options.

1 **Press MENU** to see the menu.

2 **Press VOL+ or VOL-** to highlight **SET.**

3 **Press CH+ or CH-** to select **PARENTAL CONTROL.**

4 **Press VOL+ or VOL-** to see the **SECRET CODE** screen.

5 **Press the Number buttons** to enter your four-digit secret code.

6 **Press CH+ or CH-** to select **MASTER ENABLE, BLOCK UNRATED, or BLOCK NO RATING.**

MASTER ENABLE: This is the "master switch" for Parental Control. When ON, all blocking/censoring is enabled. When OFF, all blocking/censoring is disabled.

BLOCK UNRATED: All unrated programs (based on Movie Ratings or TV Ratings) will be blocked if this feature is ON and MASTER ENABLE is ON.

BLOCK NO RATING: All programming with NO content advisory can be blocked if this feature is ON and MASTER ENABLE is ON.

7 **Press VOL+ or VOL-** to turn the blocking option **ON** or **OFF.**

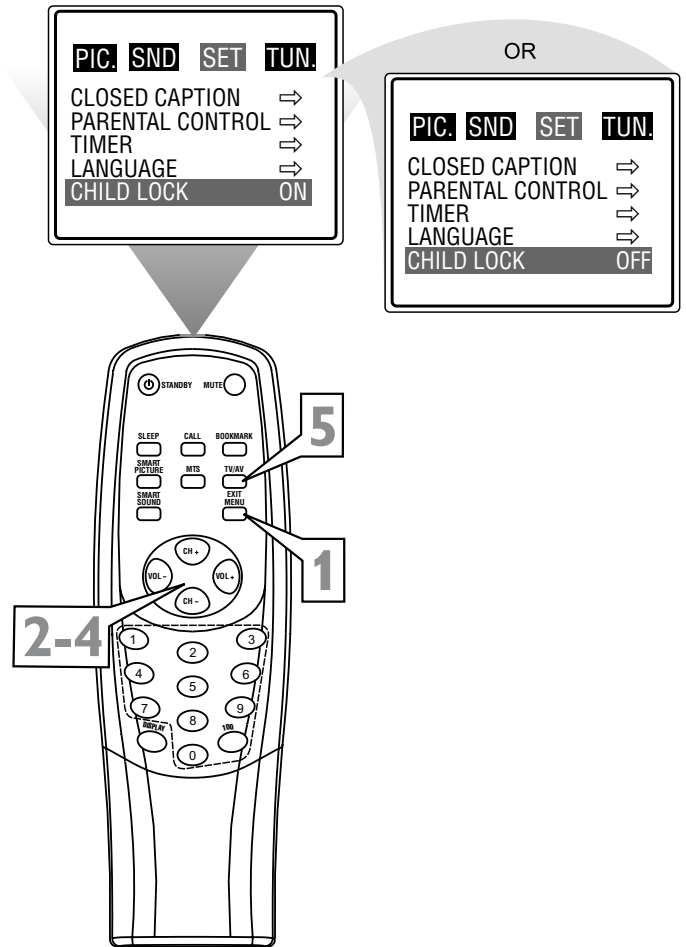**8** **Press TV/AV/EXIT** to remove the menu from the screen.

PIC. SND SET TUN.

COLOR	50
BRIGHTNESS	50
CONTRAST	50
SHARPNESS	50
TINT	0
BLUE BACK	ON

PIC. SND SET TUN.

CLOSED CAPTION	⇨
PARENTAL CONTROL	⇨
TIMER	⇨
LANGUAGE	⇨
CHILD LOCK	ON

PIC. SND SET TUN.

CLOSED CAPTION	⇨
PARENTAL CONTROL	⇨
TIMER	⇨
LANGUAGE	⇨
CHILD LOCK	ON

SET PARENTAL CONTROL

ENTER SECRET CODE:
- - - -

SET PARENTAL CONTROL

☑MPAA RATING		
☑TV PARENTAL GUIDELINES		
BLOCK UNRATED	ON	or OFF
BLOCK NO RATING	ON	or OFF
MASTER ENABLE	ON	or OFF

*C*hild Lock allows you to lock the buttons on the front of the TV.

1 **Press MENU** to show the on-screen menu.

2 **Press VOL+ or VOL- repeatedly** until **SET** is highlighted.

3 **Press CH+ or CH-** to highlight **CHILD LOCK.**

4 **Press VOL+ or VOL-** to choose **ON or OFF.**
Choose ON to disable all the buttons on the front of the TV. CHILD LOCK ON will appear briefly on the TV screen each time you press a button on the front of the TV.
You can still operate the TV with the remote control. You can still use the POWER button on the front of the TV, but only to turn off the TV (not on).
Set CHILD LOCK to OFF to cancel this feature so you can use the buttons on the front of the TV again.

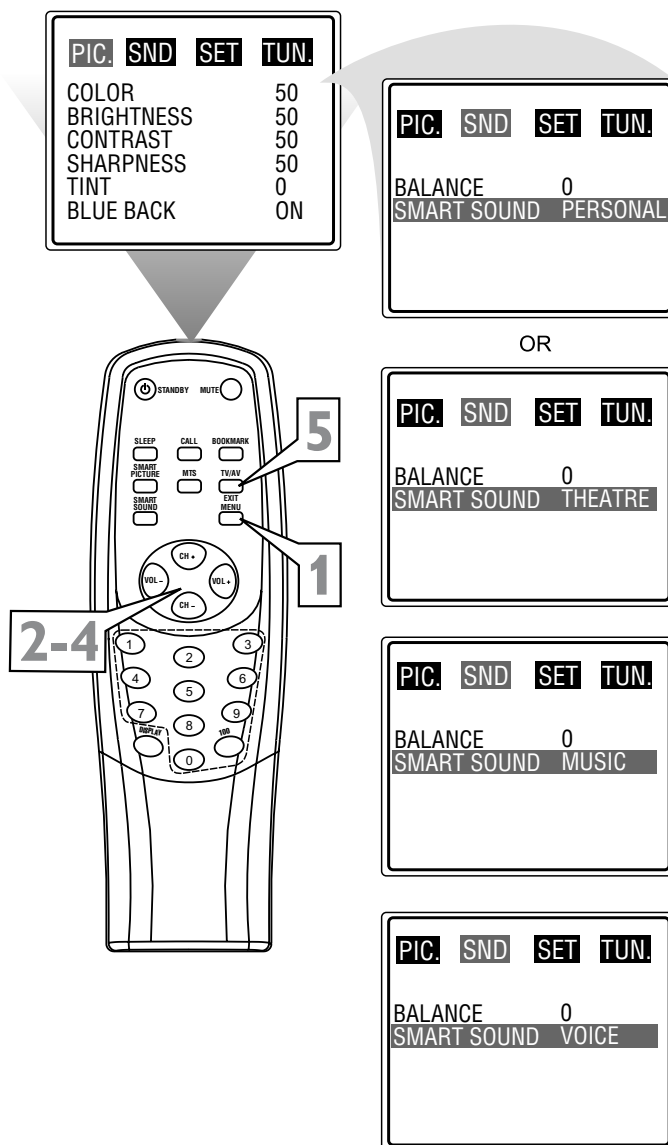**5** **Press TV/AV/EXIT** to remove the menu from the screen.

PIC. SND SET TUN.
CLOSED CAPTION ⇨
PARENTAL CONTROL ⇨
TIMER ⇨
LANGUAGE ⇨
CHILD LOCK ON

OR

PIC. SND SET TUN.
CLOSED CAPTION ⇨
PARENTAL CONTROL ⇨
TIMER ⇨
LANGUAGE ⇨
CHILD LOCK OFF

STANDBY MUTE

SLEEP CALL BOOKMARK
SMART PICTURE MTS TV/AV
SMART SOUND EXIT MENU

5

1

CH+
VOL- VOL+
CH-

2-4

1 2 3
4 5 6
7 8 9
DISPLAY 0 100

When you are watching a movie or video game, your TV has sound settings that match these programming types.

1 **Press MENU** to show the on-screen menu.

2 **Press VOL+ or VOL-** to highlight **SND (Sound).**

3 **Press CH+ or CH-** to highlight **SMART SOUND.**

4 **Press VOL+ or VOL-** to select **PERSONAL, VOICE, MUSIC, or THEATRE.**

5 **Press TV/AV/EXIT** to remove the menu from the screen.

PIC.	SND	SET	TUN.
COLOR			50
BRIGHTNESS			50
CONTRAST			50
SHARPNESS			50
TINT			0
BLUE BACK			ON

PIC.	SND	SET	TUN.
BALANCE			0
SMART SOUND			PERSONAL

OR

PIC.	SND	SET	TUN.
BALANCE			0
SMART SOUND			THEATRE

PIC.	SND	SET	TUN.
BALANCE			0
SMART SOUND			MUSIC

PIC.	SND	SET	TUN.
BALANCE			0
SMART SOUND			VOICE

STANDBY MUTE

SLEEP CALL BOOKMARK
SMART PICTURE MTS TV/AV
SMART SOUND EXIT MENU
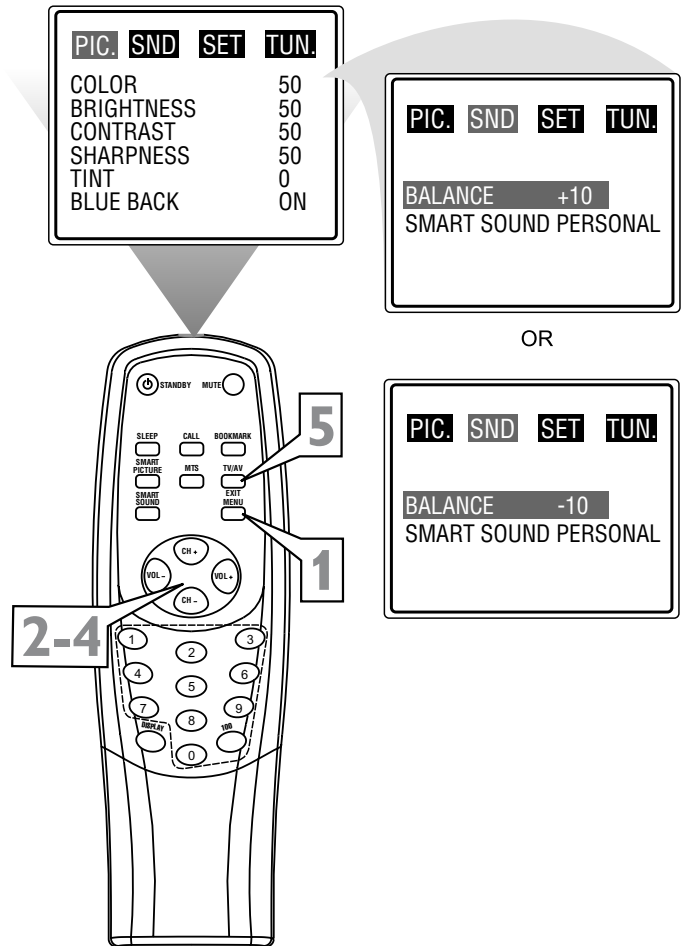
CH +
VOL -   VOL +
CH -

5

1

2-4

DISPLAY

Helpful Hint

You can choose a Smart Sound setting quickly by pressing the SMART SOUND button on the remote control.

Balance

You can adjust the balance to increase or decrease the relative volumes of the left and right sound channels.

1 **Press MENU** to show the on-screen menu.

2 **Press VOL+ or VOL-** to select **SND (Sound).**

3 **Press CH+ or CH-** to highlight **BALANCE.**

4 **Press VOL+ or VOL-** to adjust the balance.

5 **Press TV/AV/EXIT** to remove the menus from the screen.

PIC.	SND	SET	TUN.

COLOR   50
BRIGHTNESS   50
CONTRAST   50
SHARPNESS   50
TINT   0
BLUE BACK   ON

PIC.	SND	SET	TUN.

BALANCE   +10
SMART SOUND PERSONAL

OR

PIC.	SND	SET	TUN.

BALANCE   -10
SMART SOUND PERSONAL

Stereo and Second Audio Program

*M*ulti-channel Sound (MTS) broadcasts enhance TV viewing by bringing you programs with high fidelity stereo sound. MTS also provides an extra channel called the Second Audio Program (SAP), which broadcasters can use to transmit a second language or for other purposes.

1 **Press MTS** on the remote control to select **STEREO, MONO, SAP, or MONO+SAP.** All the options will be available only when the current TV channel is broadcasting that option. Channels will not always carry programs that have all the MTS options.

If STEREO appears on the screen when you select a channel, stereo broadcasting is available with the current TV program. You can hear sound from the left and right speakers of the TV.
If the broadcast is not strong or clear, stereo sound is not available. Press the MTS button to change to MONO. This should eliminate the noise.

If MONO appears on the screen when you choose a channel, Stereo is not available.

If SAP appears when you select a channel, Second Audio Program broadcasting is available for the current TV program. Press the MTS button to choose SAP and you may hear the program in a different language or some other audio.

If you choose MONO+SAP by pressing the MTS button, you will hear both the Second Audio Program and the regular MONO (monaural or single-channel) audio simultaneously.

CATV 6
AUTO
MONO

OR

CATV 22
AUTO
MONO
STEREO
SAP

STANDBY   MUTE

SLEEP   CALL   BOOKMARK

SURF
PICTURE   MTS   TV/AV

SMART
SOUND   EXIT
               MENU

CH +

VOL -   VOL +

CH -

1   2   3

4   5   6

7   8   9

DISPLAY   0   100
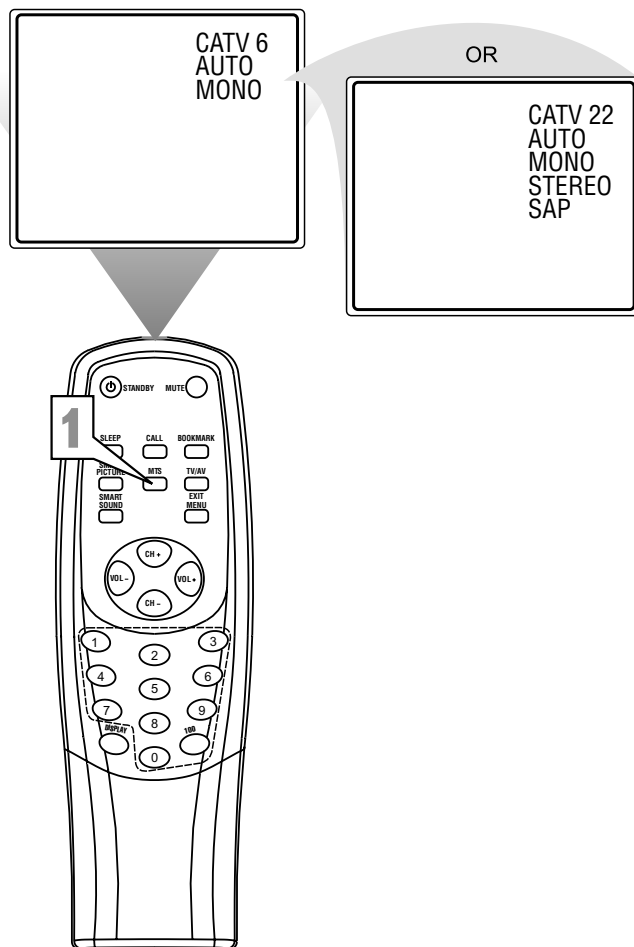
No Power
• Check the TV power cord. Disconnect the power cord from the power outlet for 10 seconds, then reinsert the plug into the outlet. Press the STANDBY button to turn on the TV again.
• Make sure the outlet is not on a wall switch.
• Make sure a fuse has not blown at the power outlet.

No Picture
• Check the antenna or Cable TV connections. Connect the antenna or Cable TV signal securely to the TV's 75 OHM ANTENNA INPUT jack on the rear of the TV.
• Set TV/CABLE correctly. Details are on page 11.
• Activate AUTO PROGRAM to find all available channels. Details are on page 12.
• Press TV/AV/EXIT on the remote control to select TV channels or a video source (VIDEO 1 or VIDEO 2). Use VIDEO 1 and VIDEO 2 to view material on other equipment (Camcorder, VCR, etc.) that is connected to the TV's Audio and Video In jacks.

No Sound
• Press the VOL+ and VOL- buttons to adjust the volume.
• Press the MUTE button on the remote control to cancel or restore the volume.

Remote Control does not work.
• Check the batteries. If necessary, replace them with two AAA heavy duty (zinc chloride) or alkaline batteries.
• Clean the remote control as well as the remote control sensor on the front of the TV.
• Check the TV power cord. Disconnect the power cord from the power outlet for 10 seconds, then reinsert the plug into the outlet. Press the STANDBY button to turn on the TV again.
• Make sure the outlet is not on a wall switch.
• Make sure a fuse has not blown at the power outlet.
• Always point the remote control toward the front of the TV (toward the remote sensor).

TV displays wrong channel or no channels.
• Repeat channel selection.
• Add the channel number(s) into the TV's memory. Use ADD/ERASE as described on page 14.
• Make sure TV/CABLE is set correctly. Details are on page 11. Then activate AUTO PROGRAM to set up all available channels. Details are on page 12.

WARNING concerning stationary images on the TV screen: Do not leave fixed images on the screen for extended periods of time. This can cause uneven aging of the picture tube.
Normal use of the TV should involve viewing of programs that have constantly moving or changing images. Do not leave non-moving images on screen for extended periods of time. Do not display the same images too frequently; subtle "ghost" images can be left on the picture tube. Sources of stationary images may be Laser discs, video games, Compact Discs Interactive (CD-i), or paused Digital Video Discs (DVDs) or videotapes.

Here are some common examples of stationary images:
   • **DVD menus -** listings of DVD content.
   • **Letterbox black bars -** appear at the top and bottom of the TV screen when a wide screen (16:9) movie is viewed on a TV with standard (4:3) aspect ratio. This is available with some DVDs.
   •**Video-game images and scoreboards**
   •**Television station logos -** These cause a problem if they are bright and stationary. Moving or low-contrast graphics are less likely to damage the picture tube.
   • **Stock-market tickers -** may appear at the bottom of the TV screen if the TV programming covers this news.
   • **Shopping channel logos, pricing displays -** These may be bright and may appear constantly during the show. These are usually in the same location on the TV screen.

TV LOCATION
•   To avoid cabinet warping, cabinet color changes, and an increased chance of TV failure, do not place the TV where temperatures can become excessively hot (for example, in direct sunlight or near a heating appliance).
•   Allow a free flow of air around the TV.

CLEANING
•   To avoid possible shock hazard, remove the TV's power cord from the electrical outlet before cleaning.
•   Regularly dust the TV with a dry, non-scratching duster.
•   When cleaning the TV, take care not to scratch or damage the screen surface. Avoid wearing jewelry or using anything abrasive. Do not use household cleaners. Wipe the screen with a clean cloth dampened with water. Use even, easy, vertical strokes when cleaning.
•   Gently wipe the cabinet surfaces with a clean cloth or a sponge dampened in a solution of cool, clear water and a mild soap or detergent. Use a clean, dry cloth to dry the wiped surfaces.
•   Occasionally vacuum the vents on the rear of the TV.
•   Never use thinners, insecticide sprays, or other chemicals on or near the cabinet. They may blemish the cabinet permanently.

Glossary

Audio/Video Inputs • Jacks (standard RCA) on the rear of the TV to which you connect accessory devices. These jacks receive picture and sound from equipment such as a DVD Player, VCR, Camcorder, etc.

Auto Program • Scans all available channels from regular antenna or Cable TV signals and stores only active stations in the TV's memory.

Closed Captioning • The broadcast feature that lets you read the voice content of television programs on the TV screen. Designed to help the hearing impaired, Closed Captioning shows dialog, activity, and conversations while a TV program is in progress.

Coaxial Cable • A single solid wire normally matched with a metal plug (F-type) end connector that screws (or pushes) directly onto a 75-ohm input on the television or VCR.

Menu • An on-screen list of controls available for adjustment.

On-screen Displays (OSD) • Messages that help you set up features (color adjustment or channel programming, for example).

Remote Control Sensor • The window or opening on the front of the TV through which infrared remote control signals are received.

Index

RENEWED
90 DAY
LIMITED WARRANTY